THE UNIVERSITY

OF

NORTH CAROLINA

THE ONE HUNDRED AND
FOURTEENTH SESSION

THE CATALOGUE

1908-1909

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CALENDAR

1909

June 7-July 17	Summer Term for Teachers.
June 16-August 27	Summer Law School.
September 1-4	*Wednesday to Saturday.* Examinations for Removal of Conditions.
September 6-8	*Monday to Wednesday.* Examinations for Admission into the College. Registration.
September 9	*Thursday.* Lectures begin.
October 12	*Tuesday.* University Day.
November 25	Thanksgiving Day.
December 23	*Thursday.* Christmas Recess begins.

1910

January 3-4	*Monday and Tuesday.* Registration.
January 5	*Wednesday.* Lectures begin.
January 17-27	Mid-Year Examinations.
January 28	*Friday.* Lectures begin.
February 22	*Tuesday.* Washington's Birthday.
April 30	*Saturday.* Selection of Commencement Orators.
May 16	*Monday.* Last Day for Delivery of Graduating Theses at Registrar's Office.
May 28	*Saturday.* Senior Class Day. Inter-Society Banquet and Reunions.
May 29	*Sunday.* Baccalaureate Sermon. Sermon before the Y. M. C. A.
May 30	*Monday.* Alumni Day. Meeting of the Board of Trustees. Inter-Society Debate.
May 31	*Tuesday.* Commencement Day. Summer Vacation begins.
August 31 to September 3	*Wednesday to Saturday.* Examinations for Removal of Conditions.

THE UNIVERSITY

FOUNDATION AND GOVERNMENT. The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged, and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the corner stone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, preamble, and first section of the Act of incorporation are follows:

"*An Act to Establish a University in this State.*"

"WHEREAS in all well regulated Governments, it is the indispensable Duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honourable Discharge of the Social Duties of Life, by paying the strictest attention to their Education: And whereas an University supported by permanent Funds, and well endowed, would have the most direct Tendency to answer the above Purpose:

"I. *Be it therefore enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the Authority of the Same*, That, *Samuel Johnston*, *James Iredell*, *Charles Johnson*, *Hugh Williamson*, *Stephen Cabarrus*, *Richard Dobbs Spaight*, *William Blount*, *Benjamin Williams*, *John Sitgreaves*, *Frederick Hargett*, *Robert Snead*, *Archibald Maclaine*, Honourable *Samuel Ashe*, *Robert Dixon*, *Benjamin Smith*, Honourable *Samuel Spencer*, *John Hay*, *James Hogg*, *Henry William Harrington*, *William Barry Grove*, Reverend *Samuel M'Corkle*, *Adlai Osborne*, *John Stokes*, *John Hamilton*, *Joseph Graham*, Honourable *John Williams*, *Thomas Person*, *Alfred Moore*, *Alexander Mebane*, *Joel Lane*, *Willie Jones*, *Benjamin Hawkins*, *John Haywood*, senior, *John Macon*, *William Richardson Davie*, *Joseph Dixon*, *William Lenoir*, *Joseph M'Dowell*, *James Holland* and

William Porter, Esquires, shall be and they are hereby declared to be a body politic and corporate to be known and distinguished by the name of *The Trustees of The University of* North Carolina;* and by that name shall have perpetual Succession and a common Seal; and that they the Trustees and their Successors, by the Name aforesaid, or a Majority of them, shall be able and capable in Law to take, demand, receive and possess all Monies, Goods and Chattels that shall be given them for the Use of the said University, and the same apply according to the Will of the Donors, and by Gift, Purchase or Devise to take, have, receive, possess, enjoy and retain to them and their Successors forever, any Lands, Rents, Tenements and Hereditaments, of what Kind, Nature or Quality soever the same may be, in special Trust and Confidence that the same or Profits thereof shall be applied to and for the Use and Purpose of establishing the said University."†

The University is governed by a board of trustees elected by the Legislature, and is free from sectionalism, sectarian, or political control. The Governor of the State is *ex-officio* President of the Board of Trustees.

Article IV of the Constitution of 1876 contains the following provisions regarding the University.

"Sec. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchises, and endowments thereof, in anywise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws, and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

"Sec. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition: also all the property which

*The corporate name has been changed to The University of North Carolina.

†Laws of the State of North Carolina, published by James Iredell Edenton, MDCCXCI.

has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University."

LOCATION. The seat of the University is Chapel Hill, Orange county, twenty-eight miles northwest of Raleigh. Two daily passenger trains run between Chapel Hill and University Junction, a station on the North Carolina Railroad. The site for the institution was selected because of its healthfulness, its freedom from malaria, its supply of pure water, its beautiful scenery, and its central location in the State.

EQUIPMENT. The University campus contains forty-eight acres of land, affording ample grounds for building and for all sorts of athletic sports. The University owns, contiguous to the campus, five hundred acres of forest land, which is partly laid off in walks and drives. The University has twenty-one buildings.

The South Building contains two lecture rooms and thirty living rooms.

The Old East Building contains two lecture rooms and twenty-eight living rooms.

The Old West Building contains two lecture rooms, the Historical Museum, and twenty-seven living rooms.

Person Hall contains the Medical Laboratories and a lecture room.

Gerrard Hall is used for morning prayers, for mass meetings and other student assemblies, and for public lectures.

Smith Hall contains the Law library and lecture rooms.

The New West Building contains the Dialectic Literary Society's Hall, the Pharmaceutical Laboratory, two lecture rooms, and nine living rooms.

The New East Building contains the Philanthropic Literary Society's Hall, the Geological Laboratory and Museum, the offices of the North Carolina Geological Survey, and fourteen living rooms.

Memorial Hall commemorates the illustrious dead of the University. It is used at Commencement for public exercises.

The Alumni Hall contains the offices of administration, the Physical Laboratories, and ten lecture rooms.

The Carr Building, the gift of Gen. J. S. Carr, contains forty-two living rooms for dormitory use.

The Mary Ann Smith Building contains forty living rooms for dormitory use.

The William Preston Bynum, Jr., Gymnasium is the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893. It is furnished with modern apparatus, swimming pool, baths, lockers, and running track; and contains a trophy room and the office of the Instructor in Physical Training.

The Young Men's Christian Association Building, recently completed, gives greater efficiency to the valuable work already being done by the Association.

Chemistry Hall contains Chemical Laboratories, lecture rooms, offices for the instructors, and store rooms.

The new *Library* building, given by Andrew Carnegie, Esq., has now been in use for one year.

Davie Hall, the new building for the department of biology, contains laboratories and lecture rooms for zoology and botany.

The Dissecting Hall is a new, well arranged building for the use of the Medical School, and is apart from the other buildings.

The New Infirmary, a spacious and completely equipped building, was thrown open to the students at the beginning of the present session.

Commons contains a dining hall where students obtain board at ten dollars a month. The whole enterprise was made possible through the beneficence of Mrs. Frederick Baker, of New York.

University Inn, recently purchased, is used for dormitory purposes, and contains a dining hall where students obtain board at fifteen dollars a month.

The Power House contains the electric lighting plant, the central heating plant, filter and pumps of the system of water supply, and the rooms of the University press.

The general equipment has been improved by a thorough system of sewers and baths, a supply of pure water in all the buildings, and hot water in all the offices, recitation rooms and reading rooms.

College Year. The College year begins on the second Thursday in September. It is divided into two terms of four and a half

months each. Commencement is held on Tuesday before the first Thursday in June. The summer vacation begins at Commencement day and ends on the Wednesday before the second Thursday in September. There is a Christmas recess of about ten days. The twelfth of October (University Day), Thanksgiving Day, and the twenty-second of February (Washington's Birthday) are holidays.

Degrees. The degrees of Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Doctor of Philosophy, Doctor of Medicine, Bachelor of Laws, and Graduate of Pharmacy are conferred by the vote of the Trustees, after the recommendation of the Faculty, upon candidates who have satisfied the requirements of residence and study at the University. Students who are not candidates for a degree may elect any studies they wish, devoting their time entirely to one or two subjects, or selecting groups of such subjects as suit their tastes and purposes.

Graduate Students. Free instruction is given in the College to graduates of colleges and universities. Women are admitted to the higher courses of the University.

Physical Training. Hearty encouragement is given to athletic sports and to all kinds of physical culture. The athletic field furnishes ample facilities for football and baseball. The Lake Track is admirably adapted for running, bicycling, and general track athletics. Fifteen tennis courts are located on the campus. Systematic exercises in the Bynum Gymnasium under a skilled instructor is required of all students in the College, except Seniors.

General Culture. Prayers are conducted in Gerrard Hall, with the reading of the scriptures and singing, every weekday morning except Saturday, at 8:30 o'clock. Attendance at this service is required of all Freshmen and Sophomores, unless specially excused. Bible classes for young men are taught in each of the four churches of the village every Sunday. Religious services are held twice a week, or oftener in each church. A series of sermons is delivered annually by the University Preachers, chosen by the Trustees from the various denominations. Bible lectures are delivered every Sunday morning in Gerrard Hall. The Young Men's Christian Association meets three times a week,

for prayer and other services, and conducts a series of Bible courses, which are numerously attended by the students.

Discipline. The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty or for misconduct.

Medical Attendance, On the payment of an annual fee of $5.00, each student receives the careful attention of the University Physician, In this way the best medical advice is to be had at the least cost. The Infirmary, under the supervision of the University Physican and provided with a trained nurse, affords the conveniences and comforts necessary for the students in their sickness.

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*The legal term of office expires November 30 of the year indicated.

1913

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1917

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Physician in Chief to the Dispensary and Demonstrator of Anaesthetics

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*Absent on Leave 1908-1909.
†Resides at Raleigh, N. C.

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Assistant in Latin

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Assistant in Mathematics

†Wade Hampton Braddy
Assistant Demonstrator of Clinical Pathology

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Assistant in Pharmacy

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Assistant in Physics

Benjamin Walton Jones
Assistant in Physics

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Assistant in Physics

Cleveland Fane Kirkpatrick
Assistant in Zoology

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Secretary of the Faculty

Eben Alexander, Ph.D., LL.D.
Supervisor of the Library

Louis Round Wilson, Ph.D.
Librarian

---

†Resides at Raleigh, N. C.

NAN SPOTSWOOD STRUDWICK
Assistant Librarian

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Director of the Gymnasium

CHARLES DIGBY WARDLAW
Assistant in the Gymnasium

WILLIE THOMAS PATTERSON
Bursar

CHARLES THOMAS WOOLLEN
Proctor

THOMAS JAMES WILSON, Jr., Ph.D.
Registrar

MARVIN HENDRIX STACY, A.M.
Recorder of Absences

EUGENE EPPERSON BARNETT, A.B.
General Secretary of the Young Men's Christian Association

WILLIAM PICARD JACOCKS, A.M.
Director of Outdoor Athletics

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The President is a member *ex officio* of all committees.

EXECUTIVE. President Venable; Deans Alexander, Smith, Herty.

CURRICULUM. Professors Alexander, H. V. Wilson, Smith, Bruner, Noble, T. J. Wilson.

AUDITING. Professors Toy, Cain, Latta.

ATHLETICS. Professors Herty, Mangum, Graham, Howe, Patterson.

CATALOGUE. Professors Howe, T. J. Wilson, P. Cobb.

COMMONS. Professors Toy, Williams, McKie.

LIBRARY. Professors Alexander, Raper, Smith, Graham.

Record. Professors Smith, Henderson, Howe.

Professional Schools. Deans MacRae, Manning, Howell.

University Magazine. Professors C. Cobb, Graham, Hamilton.

Young Men's Christian Association. Professors Smith, Graham, Stacy, L. R. Wilson.

Public Lectures. Professors Smith, Alexander, Henderson, McKie.

Debates. Professors Smith, Williams, Raper, Graham, Hamilton.

Self Help. Professors Stacy, Wheeler, Walker; Mr. Hughes.

University Press Association. Professors Latta, Mills.

University Sermons. Professors Toy, Raper, Henderson.

University Press. Professor C. Cobb.

Class Reunions. Professors Latta, T. J. Wilson, Howe, P. Cobb.

Graduate Department. President Venable; Professors Smith, Alexander, Toy.

Entrance Certificates. Professors Graham, Hamilton, Latta.

University Bulletin. Professors Latta, Stacy.

Schedules. Professors T. J. Wilson, Stacy.

Library Appropriations. President Venable; Professors Alexander, Raper.

Assignment of Rooms. Professor C. Cobb; Messrs. Davis, Parker.

THE UNDERGRADUATE DEPARTMENT

The Undergraduate Department comprises the College and the School of Applied Science. The courses of instruction outlined in the College lead to the degree of Bachelor of Arts; those in the School of Applied Science lead to the degree of Bachelor of Science. The requirements for admission to the courses in the College are given here: those for admission to the scientific courses are given below under the head of School of Applied Science.

ADMISSION

Admission into the Freshman Class.

Candidates for admission into the Freshman class are received by examination or by certificates from accredited schools.

Entrance examinations are held in September. Arrangements have been made with certain schools in the State whereby examinations for admission may be held in May, also, at the schools. The University will accept the uniform entrance examination papers of the Association of Colleges and Preparatory Schools of the Southern States, provided such papers are properly vouched for and sent sealed to the University for grading. Candidates for admission by examination must report at 9 A.M., *Monday, September 6, 1909*, to the Registrar, who will appoint time and place for examination.

Students who present certificates of work accomplished at preparatory schools and colleges may be admitted without examination, provided the certificates are approved. The right to examine, however, is reserved, when such a course is deemed necessary. Certificates must be made out on the printed forms furnished on application to the Registrar. They must be submitted for approval to the Committee on Entrance Certificates in No. 10 Alumni Building during the period of registration (*September 6, 7, 8, 1909.*)

Subjects Accepted for Entrance

The subjects accepted for entrance are arranged in two groups designated respectively *Required Subjects* and *Elective Subjects*. The term *Required Subjects* is used of those subjects which are

required of all students who intend to pursue a regular course of any description. The term *Elective Subjects* is used of those subjects which are offered as alternatives in choice (as, for example, between Latin and Greek), as well as of subjects not required in any sense for any of the regular courses. Thus French, German, Greek, Latin, etc., appear in the list of *Elective Subjects* because, though required for entrance to some courses, (see tables below), on the other hand, for entrance to other courses they may be offered simply as alternatives to make up the fifteen required units. Every subject in both lists has a valuation by units as indicated below. A total of 15 units selected from both lists is necessary for unconditioned entrance to the University. A candidate for entrance to any one of the courses leading to a bachelor's degree (see page 35), must offer all the studies in the list of required subjects and, in addition, studies enough from the list of elective subjects to make the total of 15 units in all. At the discretion of the Committee on Entrance Certificates students may be admitted with conditions, provided the conditions are of such nature that, in the judgment of the Committee, they may be removed according to the regulation which follows.

Entrance conditions in any subject except French, German, Greek, or Physics must be made up by September of the following year. A student who fails to comply with this regulation will not be allowed to continue any subject in the requirements of his Sophomore year. The exception of French, German, Greek, and Physics is made because so few schools of the State are yet able to offer complete preparation in these branches. For this reason these courses are taught in the University, and an entering student is allowed two years in which to complete them.

The lists of entrance subjects are as follows:

Required Subjects

English *a* and *b*	3. units	Science	1. unit
History	2. units	*Foreign Language:	
Algebra	1.5 units	If entering group 1	5.7 units
Plane Geometry	1. unit	If entering group 2	5.7 units
Solid Geometry	.5 unit	If entering group 3	4. units

*By Foreign Language is meant any language except English; but see tables on p. 30.

Elective Subjects

History	1. unit
Trigonometry	.5 unit
Botany	1. unit
Chemistry	1. unit
Physics	1. unit
Physiography	.5 unit
Physiology	.5 unit
Zoology	1. unit
Civics	.5 unit
Drawing	1. unit
French, Elementary	2. units
Intermediate	1. unit
German, Elementary	2. units
Intermediate	1. unit
Greek, Grammar and Composition	1. unit
Xenophon	1. unit
Homer	1. unit
Latin, Grammar and Composition	1. unit
Caesar	1. unit
Cicero	.7 unit
Vergil	1. unit
Cornelius Nepos	1. unit
Spanish, Elementary	2. units

Credit for subjects other than those named in the above lists will be given only after examination of the candidate.

Since the group of studies to be pursued in Freshman and Sophomore years (see p. 35) must correspond with the subjects offered for unconditioned* entrance, the following tables are given to make clear the requirements for entrance to each of the three courses leading to the degree of bachelor of arts.

*For entrance with condition see page 28.

For entrance to group 1:

English *a* and *b*	3. units	Greek *a* and *b*	2. units
History	2. units	Latin *a*, *b*, *c*, and *d*	3.7 units
Algebra	1.5 units	Science	1. unit
Plane Geometry	1. unit	Elective	.3 unit
Solid Geometry	.5 unit		

For entrance to group 2:

English *a* and *b*	3. units	Latin *a*, *b*, *c*, and *d*	3.7 units
History	2. units	French *a* or	
Algebra	1.5 units	German *a*	2. units
Plane Geometry	1. unit	Science	1. unit
Solid Geometry	.5 unit	Elective	.3 unit

For entrance to group 3:

English *a* and *b*	3. units	French *a*	2. units
History	2. units	German *a*	2. units
Algebra	1.5 units	Science	1. unit
Plane Geometry	1. unit	Elective	2. units
Solid Geometry	.5 unit		

The requirements in each of the subjects accepted for entrance are as follows:

English: (*a*) Reading and Practice ..... 1.5 units

Two books from the following: Shakespere's As You Like It, Henry V, Julius Caesar, The Merchant of Venice, Twelfth Night.

One book from the following: Bacon's Essays; Bunyan's The Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography.

One book from the following: Chaucer's Prologue; Selections from Spencer's Faerie Queene; Pope's The Rape of the Lock; Goldsmith's The Deserted Village; Palgrave's Golden Treasury (First Series), Books I and II (special attention to Dryden, Collins, Gray, Cowper, and Burns).

Two books from the following: Goldsmith's The Vicar of Wakefield; Scott's Ivanhoe, Quentin Durward; Hawthorne's The House of Seven Gables; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; Dickens's A Tale of Two Cities; George Eliot's Silas Marner; Blackmore's Lorna Doone.

Two books from the following: Irving's Sketch Book; Lamb's Essays of Elia; De Quincey's Joan of Arc and the English Mail-Coach; Carlyle's Heroes and Hero Worship; Emerson's Essays (selected); Ruskin's Sesame and Lilies.

Two books from the following: Coleridge's The Ancient Mariner; Scott's The Lady of the Lake; Byron's Mazeppa and The Prisoner of Chillon; Palgrave's Golden Treasury (First Series), Book IV (special attention to Wordsworth, Keats, and Shelley); Macaulay's Lays of Ancient Rome; Poe's Poems; Lowell's The Vision of Sir Launfal; Arnold's Sohrab and Rustum; Longfellow's The Courtship of Miles Standish; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Poems (selections).

The candidate is expected to have sufficient knowledge of these books to enable him to answer general questions on their substance. The form of the examination will be the composition of paragraphs on a number of topics connected with the works. The ability of the candidate to express his ideas in clear, accurate English is a main consideration. No applicant should present himself who is notably deficient in spelling, grammar, or paragraphing.

(*b*) Study and Practice ..... 1.5 units

Shakespere's Macbeth; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's The Life of Johnson, or Carlyle's Essay on Burns.

The questions on these books will be on subject matter and structure.

History: Either of the following Courses:

(*a*) The histories of the United States, Greece, and Rome, as outlined in the best text books for high schools ..... 2. units

(*b*) The histories of the United States and England as outlined in the best text books for high schools.. 2. units

(*c*) Mediaeval History ..... 1. unit

Mathematics: (*a*) Algebra ..... 1.5 units

The whole of a high school algebra including quadratic equations, binomial theorem, and progressions.

(*b*) The whole of Plane Geometry..... 1. unit

(*c*) The whole of Solid Geometry..... .5 unit

(*d*) Trigonometry..... .5 unit

Plane trigonometry and spherical trigonometry through right triangles.

Greek: (*a*) Grammar and Composition..... 1. unit

Acquaintance with the more usual forms and constructions; simple narrative in English, based upon Xenophon's Anabasis, to be translated into Greek.

(*b*) Xenophon..... ..... 1. unit

The first four books of the Anabasis.

(*c*) Homer ..... 1. unit

The first three books of the Iliad (omitting II., 494—end), with study of Homeric forms, constructions, and prosody.

Latin: (*a*) Grammar and Composition..... 1. unit

Forms, syntax, and prosody; simple narrative in English, based upon the prose read, to be translated into Latin.

(*b*) Caesar..... 1. unit

The first four books of the Bellum Gallicum.

(*c*) Cicero ..... .7 unit

The four orations against Catiline.

(*d*) Vergil..... ..... 1. unit

The first six books of the Aeneid, study of hexameter verse.

(*e*) Cornelius Nepos..... 1. unit

The first fifteen lives.

French: (*a*) Elementary ..... 2. units

The forms and uses of the various parts of speech, including irregular verbs; translation of 250 or more pages of easy prose into idiomatic English; translation of simple English sentences into French; pronunciation.

(*b*) Intermediate. ..... 1. unit

Translation of 400 or more pages of French of ordinary difficulty.

German: (*a*) Elementary..... 2. units

Inflection, including the most common strong verbs; the ordinary laws of German syntax; translation of 200 or more pages of easy German into idiomatic English; translation of simple English sentences, based upon passages read, into German.

(*b*) Intermediate..... 1. unit

Translation of 400 or more pages of German of ordinary difficulty.

Spanish: Elementary ..... 2. units

Inflections, including the most common irregular verbs; ordinary laws of syntax; translation of 250 pages or more of easy Spanish into idiomatic English; translation of simple English sentences, based upon the passages read, into Spanish.

Botany: ..... 1. unit

Anatomy; morphology; physiology; ecology; natural history of the plant groups, and classification; laboratory work.

Chemistry: .....1. unit

A course such as is contained in any standard text book; laboratory work.

Physics: ..... 1. unit

A course such as is contained in Milliken and Gale's Physics or Carhart and Chute's High School Physics; laboratory work such as is outlined in Milliken and Gale's Physics.

Physiography: .....5 unit

A course such as is contained in any standard text book.

Physiology: .....5 unit

A course such as is contained in any standard text book.

Zoology: ..... 1. unit

A year's course such as is contained in any standard text book.

Civics: .....5 unit

A course such as is contained in any standard text book.

Drawing: ..... 1. unit

A year's work, including simple geometrical plane and solid figures, simple pieces of machinery; elementary rules of perspective, light, and shade, as applied in freehand sketching.

Admission to Advanced Standing

A candidate for advanced standing may be admitted to the Sophomore, Junior, or Senior Class, with or without complete examination. He is subject not only to the examinations required of candidates for admission into the Freshman Class, but to special examinations both in all the required studies already pursued by the class which he desires to enter, and in as many elective studies as would have been required of him as a member of that class. When satisfied with the apparent fitness of the candidate, the examining committee may, in spite of his deficiencies in some studies, admit him to an advanced class; but a candidate so admitted is not recommended for the degree until the deficiencies are made good. The examining committee may accept, also, with proper restrictions, the official report of work satisfactorily completed at a college or university of good standing in place of an examination upon such previous work.

A candidate for advanced standing should present himself for examination on the same days and at the same hours as candidates for admission into the Freshman Class.

THE COLLEGE

Courses Leading to the Degree of Bachelor of Arts

In order to be recommended for the degree of Bachelor of Arts, the student must have passed satisfactory examinations in all the studies required in one of the groups prescribed for the Freshman and Sophomore years, and in a number of elective studies during the Junior and Senior years sufficient to amount to an average of fifteen hours of lectures or recitations a week for each of these years.

The group of studies selected for the Freshman and Sophomore years must correspond to the group of subjects offered for entrance.

Freshman Year

Group 1.	Group 2.	Group 3.
English 1 (4)*	English 1 (4)	English 1 (4)
Mathematics 1 (4)	Mathematics 1 (4)	Mathematics 1 (4)
Greek 1 (4)	Select one: Greek 1 (4) / Latin 1 (4)	German 1 (3)
Latin 1 (4)	Select one: German 1 (3) / French 1 (3)	French 1 (3)
	History 1 (3)	History 1 (3)

Sophomore Year

Group 1.	Group 2.	Group 3.
English 2 (3)	English 2 (3)	English 2 (3)
Select one: Greek 2 (3) / Latin 2 (3)	Greek 2 (3)	Math. 2 (3)
Select one: Greek 2 (3) / Latin 2 (3) / German 1 (3) / French 1 (3)	Latin 2 (3)	Chem. 1 (3)
Select one: Math. 2 (3) / Chem. 1 (3) / Physics 1 (3)	Select two: German 1 (3) / French 1 (3) / German 2 (3) / French 2 (3)	Physics 1 (3)
Elective (3)	Select one: Math. 2 (3) / Physics 1 (3)	Elective (3)
	Elective (3)	

*Numerals in parentheses indicate the number of hours a week in each study.

Sophomore Electives: Greek 2 (3), Latin 2 (3), German 1 (3), French 1 (3), History 3 (3), History 8 (3), Botany 1 (3), Chemistry 1 (3), Geology 1 (3), Mathematics 2 (3), Physics 1 (3), Zoology 1 (3).

The selection made must in each case be submitted to Professor Howe for approval.

Junior Year

Elective Studies amounting to fifteen hours a week, of which at least one study must be taken from each of the following groups, A, B, and C:

A.

English 3 (3), 4 (3), 5 (3), 6 (3), 9 (2), 10A (2), 10B (2), 11 (2).
Public Speaking 1 (2), 2 (2).
Greek 2 (3), 4 (2), 5 (1), 6 (2), 7 (3), 9 (1), 10 (1½), 14 (1).
Latin 2 (3), 4 (2), 5 (2), 6 (2), 7 (1), 7A (1), 8 (1), 9 (2), 10 (2).
German 2 (3), 3 (3), 4 (3), 5 (3), 6 (3), 7 (3), 8 (3).
French 2 (3), 3 (3), 4 (3), 5 (2).
Spanish 1 (3), 2 (3).
Italian 1 (3).

B.

History 2 (2), 3 (3), 4 (2), 5 (2), 6 (1), 7 (3), 8 (3), 12A (2), 12B (1).
Philosophy 1 (3), 2 (2), 3 (2), 4 (3).
Economics 1 (3). 2 (2), 4 (3), 5 (2).
Pedagogy 1 and 2 (3) (for teachers only), 3 (1½,) 4 (1½), 5 (1), 6(1).
School Organization 1 (1), 2 (1), (for teachers only).

C.

Mathematics 2 (3), 3 (3), 3A (3), 3B (2), 4 (3), 5 (3).
Physics 1 (3), 2 (2), 4 (2), 4A (2), 5 (2), 6 (3), 8 (1).
Chemistry 1 (3), 2 (3), 3 (2), 4 (3), 5 (3 to 5), 7 (3), 16 (1½).
Zoology 1 (3), 2 (3), 3 (3).
Botany 1 (3), 2 (3), 3 (3).
Geology 1 (3), 2 (3), 3 (3), 4 (3), 5 (3), 8 (3), 13 (1½).

The selection made must in each case be submitted to the Dean of the Faculty for approval.

Senior Year

Elective Studies amounting to fifteen hours a week, subject to the condition stated above for the Junior Year. In addition to the courses named for Junior Year the following courses also are open to Seniors.

A.

English 7 (2), 8 (2), 12 (2), 13 (2), 14 (2).

B.

History 9 (2), 10 (2).
Economics 3 (2).
Law (3).

C.

Mathematics 6 (3), 7 (3), 8 (3), 8A (2), 10 (3), 11 (3), 12 (3), 16 (2).
Physics 7 (4), 9 (1½), 10 (3).
Chemistry 5A (2), 6 (2), 7A (2), 7B (2), 8 (5).
Geology 6 (3).
Anatomy 1 (3).
Physiology 1 (1½).

The selection made must in each case be submitted to the Dean of the Faculty for approval.

SPECIAL COURSES

Elective studies may be selected by students who are unable to complete a course leading to the degree. Students intending to pursue these elective studies must prove their qualifications according to the regulations on page 27. After satisfying these entrance requirements, they may elect such studies as they are qualified to pursue.

Special Course for Students Intending to Teach

First Year: English 1 (4), Mathematics 1 (4), History 1 (3), Pedagogy 1 and 2 (3); one study from the following group: Latin 1 (4), Greek A (4), Greek 1 (4), French A (3), French 1 (3), German A (3), German 1 (3).

Second Year: English 2 (3), Physics A (3) or Chemistry 1 (3), Pedagogy 3 and 4 (3), School Organization 1 and 2 (2); electives amounting to a total of six hours from the following group: German, French, Greek, Latin, Mathematics, Geology, Physiology, History.

A certificate will be granted upon the completion of this course.

Special Course Preparatory to Medicine

English 1 (4), German 1 (3), Zoology 1 (3), Physics A (3), Chemistry 1 (3), Chemistry 3 (2).

The prerequisites for this course are the requirements of the ordinary high school course which would admit a student regularly to the University. (See page 27).

COURSES OF INSTRUCTION

DEPARTMENT OF GREEK

Eben Alexander, Ph.D., LL.D., *Professor of the Greek Language and Literature.*

William Stanly Bernard, A.M., *Associate Professor of Greek.*

Thomas Wyatt Dickson, A.B., *Fellow in Greek.*

Associate Professor Bernard and Mr. Dickson.

A. A course for students who have had no opportunity of studying Greek in the preparatory schools. This course may be counted for entrance only. Moss's First Greek Reader; Babbitt's Greek Grammar; Xenophon's Anabasis. *Both terms, four hours.*

Associate Professor Bernard.

1. Lysias, selected speeches; review of important grammatical principles; Homer's Iliad, books I., II., and III., and Odyssey, book VI.; reading at sight. Required of Freshmen in Group 1, elective in Group 2. *Both terms, four hours.*

Professor Alexander.

2. Plato, Apology and Crito; Aristophanes, Acharnians; Euripides, Medea; reading at sight; lectures on Greek Literature. Sophomore elective in Groups 1 and 2. *Both terms, three hours.*

Mr. Dickson.

3. Prose Composition, elementary course, intended as supplementary to Greek 1. Open to students who are taking Greek 1 or 2. *Both terms, one hour.*

Professor ALEXANDER.

4. Lectures on Old Greek Life; History of Greek Art, text-book and lectures. Junior and Senior elective. *Both terms, two hours.*

5. Modern Greek; Rangabe's Handbook; Bikelas' Stories; Newspapers. Junior and Senior elective. *Spring term, two hours.*

6. Homer, rapid reading of the entire Odyssey. Junior and Senior elective. *Both terms, two hours.*

Associate Professor BERNARD.

7. Greek Drama: Euripides, Iphigenia among the Taurians; Sophocles, Oedipus Tyrannus; Aeschylus, Agamemnon; Aristophanes, Clouds; Aristotle, Poetics. Junior and Senior elective. *Both terms, three hours.*

Professor ALEXANDER.

9. Demosthenes, three Philippics. Junior and Senior elective. *Spring term, two hours.*

10. Plato, selections from Dialogues. Junior and Senior elective. *Fall term, three hours.*

Associate Professor BERNARD.

14. The Acts of the Apostles; translation, comparison of versions, and a study of New Testament grammar and diction.

For courses 8, 11, and 12, see *Graduate School.*

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and four hours of elective work.

DEPARTMENT OF LATIN

GEORGE HOWE, PH.D., *Professor of the Latin Language and Literature.*

THOMAS JAMES WILSON, JR., PH.D., *Associate Professor of Latin.*

JOHN BRAME PALMER, A.B., *Instructor in Latin.*

WILLIAM MONROE GADDY, *Assistant in Latin.*

Professor Howe, Associate Professor Wilson, and Messrs. Palmer and Gaddy.

1. Cicero, De Senectute and De Amicitia; Livy, Book I.; Horace, Odes and Epodes. Required of Freshmen in Group 1, elective in Group 2. *Both terms, four hours.*

Professor Howe and Mr. Palmer.

2. Plautus, Menaechmi; Terence, Phormio; Horace, Satires and Epistles; Tacitus, Agricola and Germania. Sophomore elective in Groups 1 and 2. *Both terms, three hours.*

Mr. Palmer.

3. Latin Prose Composition, based on Cicero and Livy; intended as supplementary to Latin 1. Open to students who are taking Latin 1 or 2. *Both terms, one hour.*

Associate Professor Wilson.

4. Latin Comedy: reading of selected plays of Plautus and Terence, with a study of the historical development of ancient comedy. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 6.

Professor Howe.

5. Pliny, selected Letters; Juvenal, Satires; Martial, selected Epigrams; reading with special reference to the private life of the Romans at the close of the first century A. D. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 9; to be omitted in 1909-1910.

Associate Professor Wilson.

6. Cicero: rapid reading of the philosophical works, De Officiis and Tusculan Disputations, and of the rhetorical works, Brutus and De Oratore. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 4; to be omitted in 1909-1910.

Professor Howe.

7. Roman Political Institutions; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Fall term, two hours.*

This course alternates with course 7A.

7A. The Private Life of the Romans; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Fall term, two hours.*

This course alternates with course 7; to be omitted in 1909-1910.

8. History of Roman Literature; lectures. Junior and Senior elective, open also to Sophomores who are taking Latin 2. *Spring term, two hours.*

9. Roman elegiac poets; rapid reading of selected elegies of Catullus, Tibullus, Propertius, and Ovid; a study of the lives of the elegists; the history of Greek and Roman elegy. Junior and Senior elective. *Both terms, two hours.*

This course alternates with course 5.

Associate Professor Wilson.

10. A course for teachers, embracing pronunciation, prosody, the art of reading Latin, and a classification of moods and tenses. Junior and Senior elective. *Both terms, two hours.*

For courses 11 and 12, see *Graduate School.*

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and six hours of elective work.

DEPARTMENT OF GERMANIC LANGUAGES.

Walter Dallam Toy, M.A., *Professor of the Germanic Languages and Literatures.*

Palmer Cobb, Ph.D., *Associate Professor of German.*

Orestes Pearl Rhyne, A.B., *Assistant in German.*

Professor Toy, Associate Professor Cobb, and Mr. Rhyne.

A. Elementary Course: grammar; written and oral exercises;

translation; sight reading. This course may be counted for entrance only. *Both terms, three hours.*

Professor Toy and Associate Professor Cobb.

1. Translation, sight reading, composition, grammar. Required of Freshmen in Group 3, elective in Group 2; Sophomore elective. *Both terms, three hours.*

Professor Toy.

2. Schiller: Die Jungfrau von Orleans, Wallenstein's Tod; Goethe: Egmont, Iphigenie auf Tauris; Lessing: Minna von Barnhelm; lectures on German Literature. Sophomore elective in Group 2; Junior and Senior elective; prerequisite, German 1. *Both terms, three hours.*

3. History of German Literature; lectures with parallel reading and written reports. Junior and Senior elective; prerequisites, German 2 or 8. *Both terms, three hours.*
This course alternates with course 7.

4. Middle High German: Paul's Mittelhochdeutche Grammatik: Bachmann's Mittelhochdeutches Lesebuch; translation into New High German. Junior and Senior elective; prerequisite, German 2 or 8. *Both terms, three hours.*
This course alternates with course 5.

Associate Professor Cobb.

5. Old High German: Braune's Althochdeutsche Grammatik; Braune's Althochdeutsches Lesebuch. Junior and Senior elective; prerequisite, German 2, or 3, or 8. *Both terms, three hours.*
This course alternates with course 4; to be omitted in 1909-1910.

Professor Toy.

6. Gothic: Braune's Gotische Grammatik; selected parts of Paul's Grundriss der Germanischen Philologie. Introduction to Germanic Philology. Junior and Senior elective; prerequisite, German 2, or 3, or 8. *Both terms, three hours.*

7. Goethe: Goetz von Berlichingen, Tasso, Dichtung und Wahrheit, Hermann und Dorothea, Faust. Junior and Senior elective; prerequisite, German 2, or 3, or 8. *Both terms, three hours.*

This course may be elected only after consultation with the instructor; to be omitted in 1909-1910.

Associate Professor COBB.

8. History of German Literature in the nineteenth century after 1832; lectures with parallel reading and topical reports. Junior and Senior elective; prerequisite, German 1. *Both terms, three hours.*

A certificate is granted to a student who has completed with credit any four courses exclusive of course A.

DEPARTMENT OF ROMANCE LANGUAGES

JAMES DOWDEN BRUNER, PH.D., *Professor of the Romance Languages and Literatures.*

LUTHER WOOD PARKER, A.M., *Instructor in French.*

ADOLPHE VERMONT, *Instructor in the Romance Languages.*

French

Messrs. PARKER and VERMONT.

A. Elementary Course: grammar; pronunciation; written exercises; rapid reading of easy prose; reading at sight. This course may be counted for entrance only. *Both terms, three hours.*

Professor BRUNER and Mr. PARKER.

1. Modern French Drama; rapid reading of representative classical and romantic dramas; collateral reading. Required of Freshmen in Group 3; elective in Group 2; Sophomore elective. *Both terms, three hours.*
2. Modern French Fiction: rapid reading of representative novels and short stories; constant reference, for purposes

of comparison, to other great novels and short stories; lectures on the theory of prose fiction. Sophomore elective in Group 2; Junior and Senior elective; prerequisite, French 1. *Both terms, three hours.*

3. The History and Theory of French Tragedy; rapid reading of the tragedies of Corneille, Racine, Voltaire, and Victor Hugo; constant reference, for purposes of comparison, to other great tragedies, both ancient and modern; lectures and discussions. Junior and Senior elective; prerequisite, French 1. *Both terms, three hours.*

4. The History and Theory of French Comedy; rapid reading of the comedies of Moliere, Regnard, Marivaux, and Beaumarchais; constant reference, for purposes of comparison, to other great comedies, both ancient and modern; lectures and discussions. Junior and Senior elective; prerequisite, French 1. *Both terms, three hours.*

5. Old French Language and Literature, with special reference to the French element in English; rapid reading of Old French texts; lectures on the history of French sounds and inflections. Junior and Senior elective; prerequisite, French 2, or 3, or 4. *Both terms. three hours.*

To be omitted in 1909-1910.

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, or 4, or 5.

Spanish

Mr. Vermont.

1. Elementary Course: grammar; pronunciation; written exercises; rapid reading of prose; reading at sight. Junior and Senior elective. *Both terms, three hours.*

2. Cervantes: rapid reading of Don Quixote. Junior and Senior elective; prerequisite, Spanish 1. *Both terms, three hours.*

Italian

Mr. Vermont.

1. Elementary Course: grammar; pronunciation; reading of easy prose; reading and interpretation of Dante's Divine Comedy, partly in the original and partly in English. Junior and Senior elective. *Both terms, three hours.*

DEPARTMENT OF ENGLISH

Thomae Hume, D.D, LL.D., *Professor Emeritus of English Literature.*

Charles Alphonso Smith, Ph.D., LL.D. *Professor of the English Language and Literature.*

Edward Kidder Graham, A.M., *Professor of English Literature.*

James Finch Royster, Ph.D., *Associate Professor of the English Language.*

George McFarland McKie, A.M. *Associate Professor of Public Speaking.*

James Moses Grainger, A.M., *Instructor in English.*

Harvey Hatcher Hughes, A.B., *Instructor in English.*

Jay Broadus Hubbell, A.M., *Instructor in English.*

Associate Professor McKie, and Messrs. Grainger, Hughes, and Hubbell.

1. Types of Literature: the letter, the short story, the novel, the essay and the oration; the lyric, the epic, the ballad, and the drama. This course lays the foundation for the student's later studies in both literature and composition. The aim of the course is to inspire an appreciation of good literature by an intensive study of interesting and representative types. Practice in composition will be based chiefly upon the texts read. Required of Freshmen. *Both terms, four hours.*

Associate Professor Royster, Messrs. Grainger, Hughes, and Hubbell.

2. First term: Rhetoric and Composition; preparation and criti-

cism of themes. Second term: History of English and American Literature. Reports on assigned readings. Required of Sophomores. *Both terms, three hours.*

Professor GRAHAM.

3. Advanced Composition. Constant practice thoughout the year in the various forms of prose discourse, with especial emphasis on exposition. Two short themes a week, and a long theme every three weeks. Lectures and discussions. Nutter's *Specimens of Prose Composition*, Cooper's *Theories of Style*. Junior and Senior elective; prerequisite, creditable work in English 1 and 2. *Both terms, three hours.*

Professor SMITH.

4. (a) Essays, (b) Short Stories, and (c) Orations; lectures on the essay, the short story, and the oration as forms of discourse; representative essays, short stories, and orations read and analyzed; construction of essays, short stories, and orations. Junior and Senior elective. *Both terms, three hours.*

Professor GRAHAM.

5. The Rise and Development of the English Drama through Shakespere. First term, from the Miracle plays through Lyly, Green, Kyd, and Marlowe to Jonson. Second term, a detailed study of two or three of Shakespere's plays and a rapid reading of the remainder. Pollard's *English Miracle Plays*, Manly's *Specimens of the Pre-Shakesperean Drama, Vol. 2*, Cambridge edition of Shapespere's Complete Works. Junior and Senior elective. *Both terms, three hours.*

Associate Professor ROYSTER.

6. Introductory Course in (a) Old English, (b) Middle English, and (c) English Philology. (a) Smith's *Old English Grammar and Exercise Book* (4th editon). (b) Mather's edition of Chaucer's *Prologue*, *Knight's Tale*, and *Nun's*

Priest's Tale, Emerson's *Middle English Reader*. (c) Lectures on the beginnings of English Philology; Grimm's Law, Verner's Law, and the Law of Analogy. Junior and Senior elective. *Both terms, three hours.*

7. Advanced studies in (a) Old English and (b) Middle English. (a) Wyatt's *Beowulf* and the discussion of the Beowulf Saga in Vol. 3 of the *Grundriss der Germanischen Philologie*. (b) Skeats editions of Chaucer's *Minor Poems* and *Legend of Good Women*, Book IV in Vol. 2 of Ten Brink's *History of English Literature*, Root's *Poetry of Chaucer*, and Ten Brink's *Language and Metre of Chaucer*. Prerequisite, English 6 or its equivalent. Senior Elective; may be counted for graduate credit. *Both terms, three hours.*

8A. English Literary Criticism: a discussion of the function, aim, and method of literary criticism and the relation of criticism to creative literature. The emphasis of the course will be upon the development of literary criticism in England, foreign influence on English criticism, and the relation of the critical standards of the various periods of English literature to literary production. There will be assigned readings in the great critics from Plato to Pater. Vaughan's *English Literary Criticism*, Senior elective. *Both terms, two hours.*

To be omitted in 1909-1910.

9. The Contemporary Drama. In this course the condition of the stage and the character of the plays in England from 1840 to the present day will be sketched. The lectures will deal particularly with the imitation and adaptation of French plays, the attempts to put into dramatic form problems of contemporary life and manners, the sociological and artistic tendencies of the modern drama, the manifestations of decadence, the influence of Ibsen, the recent German drama, the literary drama, and the present-day outlook. Representative modern dramas will be assigned for reading. Junior and Senior elective. *Both terms, two hours.*

Professor Graham.

10A. Romanticism 1789-1830. Extensive readings in Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats, with some consideration of Southey, Lamb, Jeffrey, Jane Austen, Leigh Hunt, DeQuincey, and Hazlitt. Lectures on the various phases of the Romantic revival. Junior and Senior elective. *Both terms, two hours.*

10B. American Literature. The growth of American Literature is studied in connection with the growth and development of the nation. A survey of colonial, sectional, and national literature. Studies in Irving, Cooper, Bryant, Poe, Whittier, Longfellow, Whitman, Lanier, and in representative essayists and novelists. Lectures and reports. Junior and Senior elective. *Both terms, two hours.*

11. English Fiction in the Nineteenth Century: lectures, recitations, and papers based on readings of the authors discussed. The history of the novel up to the nineteenth century is briefly reviewed, but the main emphasis is laid upon the work of Scott, Thackeray, Dickens, Trollope, George Eliot, Hawthorne, and Mr. Merideth. Cross's *The Development of the English Novel*, Perry's *A Study of Prose Fiction*. Junior and Senior elective. *Both terms, two hours.*

Professor Smith.

12. English Syntax. Problems in advanced grammar will be studied historically. The course will consist chiefly of lectures. Sweet's *Syntax* (Vol 2 of his *New English Grammar*), Smith's *Studies in English Syntax*, Kellner's *Historical Outlines of English Syntax*, Einenkel's *Syntax* (Vol. 1 of the *Grundriss der Germanischen Philologie*) and recent theses on questions of syntax. Senior elective; may be counted for graduate credit. Prerequisite, English 6 or its equivalent and a reading knowledge of German. *Both terms, two hours.*

Professor Graham.

13. English Literature 1690-1789: lectures and study of special texts. Topics discussed during the first term: the rise and culmination of Classicism in poetry, the development of prose; during the second: the decline of Classicism and the beginning of Romanticism. Senior elective. *Both terms, two hours.*

Professor Smith.

14A. English Poetry 1830-1908; lectures and studies of assigned texts. The work will be based upon representative selections from Tennyson, Robert Browning, Arthur Hugh Clough, Rossetti, Matthew Arnold, Swinburne, William Watson, and Kipling. Senior elective; may be counted for graduate credit. *Both terms, two hours.*

This course alternates with course 14B; to be omitted in 1909-1910.

14B. American Poetry 1830-1908; lectures and studies of assigned texts. Senior elective; may be counted for graduate credit. *Both terms, two hours.*

This course alternates with course 14A.

A certificate is granted to a student who has completed, with an average grade of not less than 85, courses 1, 2, 6, and six hours of additional elective work.

Public Speaking.

Associate Professor McKie.

1. The forms of Public Address: the commemorative address, the after dinner speech, the eulogy, and other forms of the occasional address; extempore speaking. Open to Sophomores who have attained a grade of 3 in English 1, and to Juniors and Seniors. *Both terms, two hours.*

2. Debate: the preparation of briefs and forensics, and practice in oral debate. Junior and Senior elective. *Both terms, two hours.*

DEPARTMENT OF PHILOSOPHY

HENRY HORACE WILLIAMS, A.M., B.D., *Professor of Philosophy.*

1. Psychology: lectures, with text-books. Junior and Senior elective. *Both terms, three hours.*

2. Logic: lectures, with text-books; the study of logic in life. Junior and Senior elective. *Both terms, two hours.*

3. Ethics: criticism and discussions. Junior and Senior elective. *Both terms, two hours.*

4. Philosophy: lectures; theses; a study of the forces that shape life. Junior and Senior elective. *Both terms, three hours.*

For course 5, see *Graduate School.*

DEPARTMENT OF HISTORY

KEMP PLUMMER BATTLE, LL.D., *Professor Emeritus of History.*
JOSEPH GREGOIRE DE ROULHAC HAMILTON, PH.D., *Alumni Professor of History.*
HENRY MCGILBERT WAGSTAFF, PH.D., *Associate Professor of History.*
WALTER PARKER STACY, A.B., *Assistant in History.*

Professor HAMILTON, Associate Professor WAGSTAFF, and Mr. STACY.

1. American History: a general course; text and readings. Required of Freshmen in Groups 2 and 3. *Both terms, three hours.*

Associate Professor WAGSTAFF.

2. Mediæval European History: a general course covering the period 400-1648; text-books, readings, and lectures. Junior and Senior elective. *Both terms, two hours.*

To be omitted in 1909-1910.

3. English History: a general course; text-books, lectures, and readings. Sophomore, Junior, and Senior elective. *Both terms, three hours.*

4. Modern European History: a general course covering the period 1648-1900; text-books, readings, and lectures. Junior and Senior elective. *Both terms, three hours.*

Professor Hamilton.

5. English Constitutional History: a general study of English constitutional development; text-books, lectures, and readings. Junior and Senior elective. *Both terms, two hours.*

To be omitted in 1909-1910.

6. North Carolina History: a general study of the constitutional, political, and economic phases of the life of the State in the period since the Revolution; lectures, readings, and reports. Junior and Senior elective. *Spring term, two hours.*

7. Comparative Constitutions: a general study of the history and principles of the constitutions of the leading nations; a special study by means of cases of the constitution of the United States; text-book, lectures, and cases. Junior and Senior elective. *Both terms, three hours.*

Associate Professor Wagstaff.

8. Classical History: a general course dealing largely with the Greeks and Romans; text-books, lectures, and readings. Sophomore, Junior, and Senior elective, *Both terms, three hours.*

9. Seminary: lectures and reports on certain selected topics of American history; discussions of the methods of original historical research. Senior elective; prerequisite, eight hours in History. *Both terms, two hours.*

Professor HAMILTON.

10. Civil War and Reconstruction: a detailed study of the constitutional, political, and economic phases of the period of Civil War and Reconstruction; lectures, readings, and reports. Senior elective; prerequisite History 1. *Both terms, two hours.*

12A. The Protestant Revolt: a general course dealing with the causes, progress, and results of the Protestant movement, with special attention to the lives, doctrines, and influence of Luther and Calvin; text-books, lectures, and readings. Junior and Senior elective. *Fall term, two hours.*

12B. The French Revolution: a general course dealing with the causes, progress, and results of the Revolution; text-books, lectures, and readings. Junior and Senior elective. *Spring term, two hours.*

A certificate is granted to a student who has completed with credit fifteen hours in History.

For courses 13 and 14, see *Graduate School.*

DEPARTMENT OF ECONOMICS AND FINANCE

CHARLES LEE RAPER, PH.D., *Professor of Economics.*

1. General Economics: A general study of the principles which are involved in the production, distribution, and consumption of wealth, and of the relation of wealth to welfare; a special study of labor, land, capital, business management, and the state, as factors in the production and distribution of wealth. Readings: Raper's *Principles of Wealth and Welfare*, Seligman's *Principles of Economics*, and Clark's *Essentials of Economic Theory.* Junior and Senior elective. *Both terms, three hours.*

2. Public Finance: a general study of the principles which are involved in the revenues and expenditures of the state, and of the relation to the state of the industries of its citi-

zens; a special study of taxation and the tariff. Lectures and readings. Adams's *The Science of Finance*. Junior and Senior elective. *Both terms, two hours.*

Given in alternate years; to be omitted 1909-1910.

3. Economic Institutions and Thought in England and the United States: a general study, largely from the historical point of view, of the economic institutions and the systems of economic thought in England and the United States; a special study of socialism. Lectures, readings, and reports. Cheyney's *Industrial and Social History of England*, Brooks's *The Social Unrest*, Spargo's *Socialism*, *Communist Manifesto* (Marx and Engels). Senior elective. *Both terms, two hours.*

4. Money, Banking, and Insurance. (*a*) A general study of the principles, functions, and forms of money and banking; a special study of current monetary problems. Lectures and readings. Kinley's *Money*, Dunbar's *Theory and History of Banking*, (2nd Ed.), Jones's *Economic Crises*. (*b*) A general study of the principles and methods of insurance; a special study of the regulation of insurance by the state. Lectures and readings. Junior and Senior elective. *Both terms, three hours.*

5. Transportation and Labor: (*a*) A general study of the principles and forms of the modern system of transportation; a special study of the American railway system and its position in American life; a special study of the relation of the state to railway management. Lectures and readings. Johnson's *American Railway Transportation*. (*b*) Labor as an agent in the production of wealth; wages; some wages problems, as, for instance, woman and child labor, immigration, sweating system, and poverty; some of the solutions of these problems, as, for instance, strikes, boycotts, trades unions, conciliation and arbitration, profit-sharing, cooperation, industrial education and the factory acts; the relation of the state to wages problems. Adams and Sum-

ner's *Labor Problems*. Junior and Senior elective. *Both terms, two hours.*

Given in alternate years; to be given 1909-1910.

The Economics Society meets monthly for the discussion of important current industrial questions.

A certificate is granted to a student who has completed, with credit, courses 1-5.

DEPARTMENT OF MATHEMATICS

WILLIAM CAIN, C.E., *Professor of Mathematics.*
ARCHIBALD HENDERSON, PH.D., *Professor of Pure Mathematics.*
MARVIN HENDRIX STACY, A.M., *Associate Professor of Civil Engineering.*
*THOMAS FELIX HICKERSON, A.M., *Instructor in Mathematics.*
GEORGE KENNETH GRANT HENRY, A.M., *Instructor in Mathematics.*
JULIAN COLGATE HINES, JR., S.B., *Instructor in Mathematics.*
GEORGE WESTON MITCHELL, *Instructor in Drawing.*
JEANNIE WHEWELL SPEAS, A.B., *Teaching Fellow in Mathematics.*

Professor HENDERSON, and Messrs. HENRY, HINES, and SPEAS.

1. Algebra, from Quadratics through Theory of Equations (Wells's *College Algebra*); Plane and Spherical Trigonometry and Logarithms (Lyman and Goddard's *Trigonometry*). Required of Freshmen. *Both terms, four hours.*

Professors CAIN and HENDERSON.

2. Brief Course in Conic Sections (Ashton's *Analytic Geometry*); Elementary Course in Differential and Integral Calculus (Cain's *Brief Course in the Calculus*). Required of Sophomores in Group 3, elective in Groups 1 and 2. *Both terms, three hours.*

Associate Professor STACY and Mr. MITCHELL.

3. Suryeying (Raymond) and Higher Surveying, Drawing.

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*Absent on leave 1908-1909.

Junior and Senior elective; prerequisite, Mathematics 1. *Both terms, three hours.*

Professor HENDERSON.

3A. (*a*) Higher Algebra. (*b*) Elementary Mechanics (Loney). Junior and Senior elective; prerequisite, Mathematics 1. *Both terms, three hours.*

Mr. MITCHELL.

3B. Graphics: Descriptive Geometry (Church); Shades, Shadows, and Perspective (Mitchell); lectures and plates. Junior and Senior elective. *Both terms, two hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, three hours.*

Professor HENDERSON.

5. Theory of Equations (Burnside and Panton). Junior and Senior elective; prerequisite, Mathematics 2. *Both terms, three hours.*

6. Differential Equations (Murray). Senior elective; prerequisite Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

7. Railroad Surveying and Railroad Engineering. Senior elective; prerequisite, Mathematics 3. *Both terms, three hours.*

7A. Hydraulics, Sanitary Engineering. Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Professor CAIN.

8. Mechanics of Materials. Senior elective; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

10. Stresses in Bridges and Roof Trusses, Graphical Statics. Senior elective; prerequisite, Mathematics 4. *Both terms, four hours.*

Professor CAIN.

11. Arches, Dams, and Sanitary Engineering. Senior elective. May be taken with Mathematics 12. *Both terms, three hours.*

12. Graphical Statics. Senior elective; prerequisite, Mathematics 4. *Spring term, three hours.*

16. Road Construction and Drainage; Road Machinery. *Both terms, two hours.*

For additional courses, see *Graduate Department.*

Drawing

Mr. MITCHELL.

1. Freehand Drawing and Mechanical Drawing: (*a*) freehand: pencil outline, pencil shading from flat models and casts; (*b*) mechanical: use of instruments; geometrical constructions; freehand lettering; dimensioning; (*c*) plotting. Not counted for the degree. *Both terms, two hours.*

2. Mechanical and Topographical Drawing. (*a*) Orthographic projection, intersections, developments. (*b*) Machine drafting, conventional signs for materials of construction, sketching of machine details. (*c*) A course in tinting. (*d*) Topography: conventional signs, hill shading, mapping. Not counted for the degree. *Both terms, two hours.*

2A. Continuation of Drawing 1. Not counted for the degree. *Both terms, two hours.*

3. Mechanical Drawing: machine drafting, work drawings; tracing and blue prints of machine details; assembly

drawing; machine design; complete shop and erection drawing with bill of material, in accordance with modern drafting room systems and standards. Not counted for the degree; prerequisite, Drawing 1 and 2. *Both terms, two hours.*

5. Advanced Freehand Drawing: charcoal and crayon, pen and ink, brush drawing; lectures. Not counted for the degree. *Both terms, two hours.*

6. Theory of Perspective: lectures and plates. Not counted for the degree. *Both terms, two hours.*

7. Structural Drafting: standard rolled sections, conventional riveting signs, standard connections, methods of framing and detailing structural work, beams, columns, plate girders, roof trusses, bridge details. Not counted for the degree. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

Andrew Henry Patterson, A.M., *Professor of Physics.*
James Edward Latta, A.M., *Professor of Electrical Engineering.*
Thomas Joseph McManis, *Instructor in Physics.*
William Rufus Edmonds, *Assistant in Physics.*
Benjamin Walter Jones, *Assistant in Physics.*
Vincent Melanchthon Montsinger, *Assistant in Physics.*

Professors Patterson and Latta.

A. Elementary Physics: lectures, with text-book, weekly written reviews, laboratory work. May be counted for entrance; open also to students in the Schools of Medicine and Pharmacy. *Both terms, three hours.*
Laboratory Fee, $1.00 a session.

Professor Patterson.

1. General Physics: lectures, with text-book; problems; laboratory work. Required of Sophomores in Group 3; elective

in Groups 1 and 2; prerequisite, Mathematics 1. *Both terms, three hours.*

Laboratory fee, $2.50 a session.

2. Modern Electrical Theory: the electron theory, electrolysis, conduction of electricity through gases, electrical nature of matter, radioactivity; lectures and recitations. Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

4. Study of Electricity and Magnetism, with laboratory work; Franklin and MacNutt's *Electricity and Magnetism.* Junior and Senior Elective. *Both terms, two hours.*

Laboratory fee, $4.00 a session.

Professor LATTA.

4A. Electrical Machinery: theory and practical operation of direct and alternating current dynamos and motors; testing of typical forms in the laboratory. Junior and Senior elective; prerequisite, Physics 1 and 4. *Both terms, two hours.*

Laboratory fee, $4.00 a session.

Professor PATTERSON.

5. Descriptive Astronomy: a general course; lectures and recitations with use of lantern slides; Junior and Senior elective; prerequisite, Physics 1. *Both terms, two hours.*

Professors PATTERSON and LATTA.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine.* Junior and Senior elective; prerequisite, Physics 1. *Both terms, three hours.*

Professor Latta.

7. Alternating Currents and Alternating Current Machinery; lectures and problem work; testing and study of alter-

nating current machines in the laboratory. Text-book: Hay's *Alternating Currents*. Senior elective; prerequisite, Physics 1 and 4A. *Both terms, four hours.*
Laboratory fee, $5.00 a session.

8. Primary and Secondary Batteries. Junior and Senior elective; prerequisite, Physics 1 and Chemistry 1. *Fall term, two hours.*

9. Electric Lighting, Wiring, and Distribution: a study of circuits for light and power. Senior elective; prerequisite, fall term of Physics 7. *Spring term, three hours.*

10. Electric Testing: experimental study of electrical machinery and other apparatus. Senior elective; prerequisite Physics 4A. *Both terms, three hours.*
Laboratory fee, $10.00 a session.

11. Steam Machinery. Introductory course. Prerequisite, Physics 1 and Mathematics 2. Not counted for the degree. *Spring term, three hours.*
Laboratory fee, $3.00 a session.

For courses for graduates, see *Graduate School.*

DEPARTMENT OF CHEMISTRY.

Charles Holmes Herty, Ph.D., *Smith Professor of General and Industrial Chemistry.*

Francis Preston Venable, Ph.D., D.Sc., LL.D., *Professor of Theoretical Chemistry.*

Alvin Sawyer Wheeler, Ph.D., *Associate Professor of Organic Chemistry.*

James Edward Mills, Ph.D., *Associate Professor of Physical Chemistry.*

Royall Oscar Eugene Davis, Ph.D., *Instructor in Physical Chemistry.*

Eugene Joseph Newell, *Fellow in Chemistry.*

LAWRENCE GEDDING SOUTHARD, S.B., *Fellow in Chemistry.*
STROUD JORDAN, M.S., *Assistant in Chemistry.*
DUNCAN MACRAE, *Assistant in Chemistry.*
WILLIAM MERCER OATES, *Assistant in Chemistry.*
WALLACE HEADEN STROWD, *Assistant in Chemistry.*

Professor HERTY and Dr. DAVIS.

1. General Descriptive Chemistry: a study of the elements and their compounds, including an introduction to Organic Chemistry; lectures with laboratory work. Required of Sophomores in Group 3, elective in Groups 1 and 2. *Both terms, three hours.*

   Laboratory fee: fall term, $1.00, spring term, $1.50.

Professor HERTY.

2. Technical Chemistry. (*a*) Industrial and Agricultural Chemistry: glass-making, acids, alkalies, phosphates, fertilizers, foods, clothing, hygiene, etc. (*b*) Metallurgy: mining, treatment of ores, smelting, chlorination, fuel, building materials, etc. Junior and Senior elective; prerequisite, Chemistry 1. *Both terms, three hours.*

Associate Professor WHEELER and Mr. JORDAN.

3. Qualitative Analysis; laboratory work with lectures. May be taken with Chemistry 1. Junior and Senior elective. *Both terms, two hours.*

   Laboratory fee, $5.00 a term.

Associate Professor MILLS.

4. Quantitative Analysis and Assaying; laboratory work, lectures, and stoichiometric exercises; a grounding in analytical methods. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

   Laboratory fee, $5.00 a term.

Associate Professor WHEELER.

5. Organic Chemistry. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, $4.00 a term.

5A. Organic Chemistry; special preparations. Senior elective. *Both terms, laboratory, two hours.*

Laboratory fee, $6.00 a term.

Professor VENABLE.

6. The Theories of Chemistry. Senior elective; prerequisite, Chemistry 1, 3, 4, 5. *Both terms, two hours.*

Associate Professor MILLS.

7. Elementary Physical Chemistry. Junior and Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, $2.00 a term.

7A. Physical Chemistry; lectures and text-books, with laboratory work. Senior elective; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*

Laboratory fee, $2.00 a term.

7B. Electro-Chemistry: theory and application of electricity to chemical processes. Senior elective: prerequisite, Chemistry 1 and 3. *Both terms, two hours.*

Professor HERTY.

8. Quantitative Analysis; laboratory work; gas analysis and extension of course 4 in technical lines; bacteriological examination of water (with Professor MacNider); research. Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, five hours.*

Laboratory fee, $10.00 a term.

16. Inorganic Chemistry. A detailed study of the reactions of the elements and their compounds. Lectures and textbook. Junior and Senior elective; prerequisite, Chemistry 1. *Spring term, three hours.*

17. Quantitative Analysis. Laboratory work. Extension of course 4 in technical lines. Senior elective; prerequisite, Chemistry 1, 3, and 4. *Both terms, three hours.*

Laboratory fee, $5.00 a term.

The Journal Club meets fortnightly. The current journals, American, English, German, and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in all courses except 1 and 3.

For courses 9 and 10, see *School of Medicine* and *School of Pharmacy*. For courses 11, 12, 13, 14, and 15, see *Graduate School*.

DEPARTMENT OF BIOLOGY

Henry Van Peters Wilson, Ph.D., *Professor of Zoology.*
William Chambers Coker, Ph.D., *Professor of Botany.*
Cleveland Fane Kirkpatrick, *Assistant in Zoology.*
Elden Bayley, *Assistant in Botany.*

Zoology

Professor Wilson and Mr. Kirkpatrick.

1. General Zoology: an introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Sophomore, Junior, and Senior elective, and open to First Year medical students. *Both terms, three hours.*

2. Comparative Anatomy and Embryology of the Vertebrates; study of types of fishes, amphibia, reptiles, birds, mammals; development of the characteristic vertebrate organs

in the frog and chick; fundamentals of microscopic technique; laboratory work with occasional lectures. Junior and Senior elective. *Both terms, three hours.*

3. Comparative Anatomy and Embryology of the Invertebrates; dissection and microscopic study of types of the chief orders, with some consideration of their embryology; laboratory work with occasional lectures. Junior and Senior elective. *Both terms, three hours.*

A certificate is granted to a student who has completed with credit courses 1, 2, and 3, and Botany 1.

Botany

Professor Coker and Mr. Bayley.

1. General Botany: an introduction to the structure and classification of plants; lectures with laboratory work. Sophomore, Junior, and Senior elective. *Both terms, three hours.*

2. Special Morphology of the mosses, ferns, and higher plants, with particular consideration of homologies; lectures with laboratory and field work. Junior and Senior elective. *Both terms, three hours.*

3. Special Morphology of the Algae and Fungi, with attention to the culture of lower fungi, and the identification of mushrooms; lectures with laboratory and field work. Junior and Senior elective. *Both terms, three hours*

DEPARTMENT OF GEOLOGY AND MINERALOGY

Collier Cobb, A.M., *Professor of Geology and Mineralogy.*
Joseph Hyde Pratt, Ph.D., *State Geologist and Professor of Economic Geology.*
Harry Nelson Eaton, A.M., *Instructor in Geology.*
William Henry Fry, *Assistant in Geology.*

Professor Cobb and Mr. Fry.

1. Elementary Geology; lectures with field work; laboratory work on the common minerals and rocks. Sophomore, Junior, and Senior elective. *Both terms, three hours.*

Mr. Eaton.

2. Mineralogy; lectures with laboratory and field work; Crosby's *Tables* and Dana's *Text-book of Mineralogy.* Junior and Senior elective; prerequisite, Geology 1 and Chemistry 3. *Both terms, three hours.*

Professor Cobb.

3. General Critical Geology; lectures with field work; laboratory work on rocks and fossils; theses. Junior and Senior elective. *Both terms, three hours.*

Mr. Eaton.

4. Economic Geology: ore deposits and minerals; lectures with laboratory and field work. Junior and Senior elective; prerequisite, Geology 1 and Chemistry 1 and 3. *Both terms, three hours.*

5. Petrography; lectures, laboratory work, and theses. Junior and Senior elective; prerequisite, Geology 1 or 3. *Both terms, three hours.*

Professor Cobb.

6. Advanced field work and special research in Geology or Geography; problems and work adapted to the professional needs of the student. Senior elective; prerequisite, two courses in Geology. *Both terms, three hours.*

7. Advanced course in Physiography. Senior elective; prerequisite, Geology 1 and Zoology 1 or Botany 1. *Both terms, three hours.*

8. Origin and Nature of Soils; field work, laboratory work, and theses. Junior and Senior elective. *Both terms, three hours.*

Professor Pratt.

11. Mineral and Ore Deposits; lectures supplemented by laboratory and field work. Prerequisite, Geology 1 and 2 and Chemistry 3. *Twenty-four lectures* (*Spring term*).

12. Principles and Practice in General Mining; lectures supplemented by visits to different mining regions.

Professor Cobb.

13. Advanced Geological Field Work and Special Research; studies in the Deep River and Wadesboro areas of the Triassic rocks; a brief examination of the Potomac, Eocene, Lafayette, and Columbia deposits. This course is given in the summer. It covers five weeks, of which one is spent in Chapel Hill with daily meetings, the remaining four weeks are devoted to field work. Students who take this course will be expected to devote all their time to it. Junior and Senior elective. *One term, three hours.*

The Geological Seminary meets fortnightly for review and discussion of current geological literature, and for the presentation of original papers.

For course 9, see *Graduate School*.

DEPARTMENT OF EDUCATION

Marcus Cicero Stephens Noble, *Professor of Pedagogy.*
Nathan Wilson Walker, A.B., *Professor of Secondary Education.*
Louis Round Wilson, Ph.D., *Associate Professor of Library Administration.*

Pedagogy

Professor Noble.

1. The Science of Education: the practical application of scientific principles to the teaching of elementary branches; a brief study of modern educational problems; preparation of model lessons according to pedagogical principles; lectures and theses: De Garmo's *Essentials of Method.* Junior

and Senior elective, open only to those who intend to teach (not counted for a degree unless Pedagogy 2 is also taken). *Fall term, three hours.*

2. The Art of Teaching: a careful study of the principles and methods involved in successfully teaching those studies usually taught in the best public and private primary schools; lectures and theses; McMurray's *General Method.* Junior and Senior elective, open only to those who intend to teach; prerequisite, Pedagogy 1. *Spring term, three hours.*

3. The Philosophy of Education; Science and Practice of Education (Herbart): comparative study of the different systems of education in the several States of the Union; the development and arrangement of a High School course. Junior and Senior elective. *Fall term, three hours.*

4. The General History of Education; the development of educational ideals in the past; the effect of the pedagogical doctrines of the great educators of the past upon modern educational systems; lectures; parallel readings; criticisms; theses; Seeley's *History of Education*, Monroe's *Educational Ideal.* Junior and Senior elective. *Spring term, three hours.*

5. The study of childhood in transforming modern methods of studying and teaching educational science; readings, discussions, and theses. Junior and Senior elective. *Fall term, two hours.*

6. Historical Pedagogy. The attempt is made in this course to investigate the Herbartian movement in Germany and the United States. The works of Rein, Story, Ziller, Lange, and others are studied. Theses. Junior and Senior elective. *Spring term, two hours.*

A certificate is granted to a student who has completed with credit courses 1-6 inclusive.

For course 7, see *Graduate School.*

Secondary Education

Professor Walker.

1. High School Organization: a study of high school curricula and methods. Open to teachers. *Fall term, two hours.*

2. A study of present-day forces in American education, with special attention to the educational problems and conditions in the Southern States. Open to teachers. *Spring term, two hours.*

Library Administration

Associate Professor Wilson.

1. Library Administration: a study of library administration, bibliography, book selection, reading courses, debate references, indexing, and technical library methods; practice in the University library. This course may not be counted for a degree unless allowed by the Executive Committee. *Both terms, two hours.*

FORESTRY

Mr. Ashe.

Lectures on Forestry; a course of six lectures on the economic status of forestry, which are specially adapted for students in economics and botany. There will also be two general lectures open to the public.

SCHOOL OF APPLIED SCIENCE

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to be recommended for the degree of Bachelor of Science, the student must have passed satisfactory examinations in all the studies required in one of the first four courses outlined in this department. Each course combines instruction in certain sciences and their application to the arts with certain other general studies deemed essential for a liberal education. These courses are designed to furnish the fundamental instruction and to prepare students to pursue the technical professions to which they lead. The courses leading to the degree are four in number; courses V. and VI. are special courses.

I. Chemical Engineering.
II. Electrical Engineering.
III. Civil Engineering.
IV. Mining Engineering.
V. Soil Investigation.
VI. Road Engineering.

ADMISSION

Candidates for admission into the School of Applied Science are subject to the same regulations as those laid down on page 27 for candidates for entrance to the College. The subjects required for entrance are the same as those required for entrance to the College. Any fifteen units, under the restrictions named on page 28 will admit the candidate, but in every case German A must be offered. If a candidate has had no opportunity to prepare himself in German, he can make up the deficiency after he enters the University. For the complete account of entrance repuirements, see pages 27-33. For complete description of the requirements in each subject, see pages 30-33.

I. CHEMICAL ENGINEERING

FRESHMAN YEAR

English 1 ..... (4)*
Mathematics 1 ..... (4)
German 1 ..... (3)
Chemistry 1 ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Chemistry 3, Qualitative Analysis ..... (2)
Chemistry 4, Quantitative Analysis and Assaying ..... (3)
Physics 1, General Course ..... (3)
Drawing 2A ..... (2)

JUNIOR YEAR

Chemistry 16, Inorganic Chemistry, advanced ..... (1½)
Chemistry 2, Technical Chemistry ..... (3)
Chemistry 17, Quantitative Analysis, advanced ..... (3)
Chemistry 5, Organic Chemistry, advanced ..... (3)
Chemistry 7, Elementary Physical Chemistry ..... (2)
Geology 1 ..... (3)
English 3A ..... (1½)

SENIOR YEAR

Chemistry 6, Theories of Chemistry ..... (2)
Chemistry 5A, Organic Chemistry ..... (2)
Select one { Chemistry 7A, Physical Chemistry, advanced ..... (3)
Chemistry 7B, Electro-Chemistry ..... (2)
Chemistry 8, Advanced Quantitative Analysis and Research ... (5)
Physics 4A, Electric Machinery ..... (2)
Physics 6, Thermo-dynamics, (Fall term) ..... (1½)
Geology 2, Mineralogy ..... (3)

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*Numerals in parentheses indicate the number of hours a week in each study.

II. ELECTRICAL ENGINEERING

FRESHMAN YEAR

English 1 ..... (4)
Mathematics 1 ..... (4)
Select one { German 1 ..... (3) / French 1 ..... (3)
Chemistry 1 ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Select one { German 1 ..... (3) / French 1 ..... (3)
Physics 1, General Course ..... (3)
Physics 4, Electricity and Magnetism ..... (2)
Chemistry 3, Qualitative Analysis ..... (2)

JUNIOR YEAR

Mathematics 3, Surveying ..... (2)
Mathematics 3B ..... (2)
Mathematics 4 ..... (3)
Physics 4A, Electric Machinery ..... (2)
Physics 6, Thermodynamics ..... (3)
Physics 11, Steam Machinery ..... (1½)
English 3A ..... (1½)
Drawing 2 ..... (2)

SENIOR YEAR

Physics 7, Alternating Currents ..... (4)
Physics 8, Batteries ..... (1)
Physics 9, Electric Lighting, Wiring, and Distribution ..... (1)
Physics 10, Electric Testing ..... (3)
Chemistry 7B, Electro-Chemistry ..... (2)
Select one { Chemistry 2, Technical Chemistry ..... (3) / Chemistry 4, Quantitative Analysis ..... (3)
Drawing 3 ..... (2)

III. CIVIL ENGINEERING

FRESHMAN YEAR

English 1 ..... (4)
Mathematics 1 ..... (4)
Select one { German 1 ..... (3) / French 1 ..... (3)
Chemistry 1 ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Mathematics 3, Surveying ..... (2)
Mathematics 3A ..... (3)
Physics 1, General Course ..... (3)
Drawing 2A ..... (2)

JUNIOR YEAR

Mathematics 3B, Descriptive Geometry ..... (2)
Mathematics 4, Calculus and Analytic Mechanics ..... (3)
Mathematics 7, Railroad Surveying and Engineering ..... (3)
Mathematics 12, Graphical Statics ..... (1½)
English 3A ..... (1½)
Geology 1 ..... (3)
Drawing 2 ..... (2)

SENIOR YEAR

Mathematics 7A, Hydraulics ..... (3)
Mathematics 11, Arches, Dams, and Sanitary Engineering ..... (3)
Mathematics 8, Mechanics of Materials ..... (3)
Mathematics 10, Bridges and Roof Trusses ..... (4)
Chemistry 2, Technical Chemistry ..... (3)

IV. MINING ENGINEERING

FRESHMAN YEAR

English 1 ..... (4)
Mathematics 1 ..... (4)

German 1 ..... (3)
Chemistry 1, General Chemistry ..... (3)
Drawing 1 ..... (2)

SOPHOMORE YEAR

English 2 ..... (3)
Mathematics 2 ..... (3)
Physics 1, General Course ..... (3)
Geology 1 ..... (3)
Chemistry 3, Qualitative Analysis ..... (2)
Drawing 2A ..... (2)

JUNIOR YEAR

Mathematics 3, Surveying and Leveling ..... (2)
Mathematics 4, Calculus and Analytic Mechanics ..... (3)
Physics 6, Thermo-dynamics and Steam Engine ..... (3)
Geology 2, Mineralogy ..... (3)
Chemistry 4, Quantitative Analysis ..... (3)
Geology 11, Ore Deposits ..... (1)
English 3A ..... (1½)

SENIOR YEAR

Chemistry 2, Technical Chemistry, Metallurgy ..... (3)
Geology 4, Economic Geology ..... (3)
Geology 6, Mine Examinations ..... (3)
Geology 12, Principles of Mining ..... (1)
Physics 4A, Electric Machinery ..... (2)
Mathematics 7A, Hydraulics ..... (3)
Elective ..... (1)

V. SOIL INVESTIGATION

Prerequisites: English 1, Mathematics 1, Physics A, and two of the following: German A, French A, Spanish 1.

FIRST YEAR

English 2 ..... (3)
Chemistry 1 ..... (3)
Chemistry 3 ..... (2)

Physics 1, General Course..... (3)
Geology 1..... (3)
Soils 1..... (3)

SECOND YEAR

Zoology 1..... (3)
Botany 1..... (3)
Chemistry 4..... (3)
Geology 8..... (3)
Soils 2..... (2)
Mapping..... (2)

VI. ROAD ENGINEERING

FIRST YEAR

English 1..... (3)
Mathematics 1..... (4)
Select one { German 1..... (3) / French 1..... (3)
Chemistry 1..... (3)
Drawing 1..... (2)

SECOND YEAR

English 2..... (3)
Mathematics 3, Surveying and Leveling..... (2)
Physics 1, General Course..... (3)
Geology 1..... (3)
Mathematics 16, Road Construction and Drainage..... (2)
Drawing 2A..... (2)

THIRD YEAR

Mathematics 7, Location of Roads, Excavation..... (3)
Geology 8, Study of Soils..... (3)
Geology 4, Rocks for Road Construction..... (1½)
English 3A..... (1½)
Chemistry 2, Technical Chemistry..... (3)
Mathematics 10, Bridge Trusses..... (2)
State Roads and Road Management (Lectures)..... (1)
Building Object Lesson Roads (Field Work)..... (1)

COURSES OF INSTRUCTION

Only those scientific and language courses which are specifically required in the School of Applied Science are repeated here. For complete description of other courses, see pages 39ff.

DEPARTMENT OF ENGLISH

Associate Professor McKie, Messrs. Grainger, Hughes, and Hubbell.

I. Types of Literature: the short story, the novel, the essay, and the oration; the lyric, the epic, the ballad, and the drama. This course lays the foundation for the student's later studies in both literature and composition. The aim of the course is to inspire an appreciation of good literature by an intensive study of interesting and representative types. Practice in composition will be based chiefly upon the texts read. Required of Freshmen. *Both terms, three hours.*

Associate Professor Royster, Messrs. Grainger, Hughes, and Hubbell.

2. History of English and American Literature. Reports on assigned readings. Required of Sophomores. *Both terms, three hours.*

Professor Graham.

3A. Composition: a practical course in expository writing designed to teach clearness and good construction. Lectures and theses. Required of Juniors. *Fall term, three hours.*

DEPARTMENT OF ROMANCE LANGUAGES

Messrs. Parker and Vermont.

A. Elementary Course: grammar; pronunciation; written exercises; rapid reading of easy prose; reading at sight. This course may be counted for entrance only. *Both terms, three hours.*

Professor Bruner.

1. Modern French Drama; rapid reading of representative classical and romantic dramas; collateral reading. Freshman elective in Courses II., III., and VI. *Both terms, three hours.*

DEPARTMENT OF GERMANIC LANGUAGES

Professor Toy, Associate Professor Cobb, and Mr. Rhyne.

A. Elementary Course; grammar; written and oral exercises; translation; sight reading. This course may be counted for entrance only. *Both terms, three hours.*

Professor Toy and Associate Professor Cobb.

1. Translation, sight reading, composition, grammar. Required of Freshmen in Courses I. and IV.; elective in Courses II., III., and VI. *Both terms, three hours.*

DEPARTMENT OF MATHEMATICS

Professor Henderson and Messrs. Henry, Hines, and Speas.

1. Algebra, from Quadratics through Theory of Equations (Wells's *College Algebra*); Plane and Spherical Trigonometry and Logarithms (Ashton and Marsh's *Trigonometry*). Required of Freshmen. *Both terms, four hours.*

Professors Cain and Henderson.

2. Brief course in Conic Sections (Ashton's *Analytic Geometry*); Elementary Course in Differential and Integral Calculus (Cain's *Brief Course in the Calculus*). Required of Sophomores. *Both terms, three hours.*

Associate Professor STACY and Mr. MITCHELL.

3. (*a*) Surveying (Raymond), and (*b*) Higher Surveying. Required of Sophomores in Courses III. and VI., and of Juniors in Courses II. and IV. *Both terms, three hours.*

Professor HENDERSON.

3A. (*a*) Higher Algebra, (*b*)Elementary Mechanics (Loney). Required of Sophomores in Course III. *Both terms, three hours.*

Mr. MITCHELL.

3B. Graphics: Descriptive Geometry (Church); Shades, Shadows, and Perspective (Mitchell). Required of Juniors in Courses II. and III. *Both terms, two hours.*

Professor CAIN.

4. Calculus, Analytic Mechanics. Required of Juniors in Courses II., III., and IV.; prerequisite, Mathematics 2. *Both terms, three hours.*

Professor HENDERSON.

5. Theory of Equations (Burnside and Panton). Prerequisite, Mathematics 2. *Both terms, three hours.*

6. Differential Equations (Murray). Prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor STACY.

7. Railroad Surveying and Railroad Engineering. Required of Juniors in Courses III. and IV.; prerequisite, Mathematics 3. *Both terms, three hours.*

7A. Hydraulics, Sanitary Engineering. Required of Seniors in Courses III. and IV.; prerequisite, Mathematics 4. *Both terms, three hours.*

Professor CAIN.

8. Mechanics of Materials. Required of Seniors in Course III.; prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor Stacy.

10. Stresses in Bridges and Roof Trusses, Graphical Statics. Required of Seniors in Course III. and in third year of Course VI.; prerequisite, Mathematics 4. *Both terms, four hours.*

Professor Cain.

11. Arches, Dams, and Sanitary Engineering. Required of Seniors in Course III.; prerequisite, Mathematics 4. *Both terms, three hours.*

12. Graphical Statics. Required of Juniors in Course III.; prerequisite, Mathematics 4. *Spring term, three hours.*

16. Road Construction and Drainage; Road Machinery. Required in second year of Course VI. *Both terms, two hours.*

Drawing

Mr. Mitchell.

1. Freehand Drawing and Mechanical Drawing; (*a*) freehand: pencil outline, pencil shading from the flat models and casts; (*b*) mechanical: use of instruments; geometrical constructions; freehand lettering; dimensioning; (*c*) plotting. Required of Sophomores in Course III. and of Juniors in Courses I., II., and IV. *Both terms, two hours.*

2. Mechanical and Topographical Drawing. (*a*) Orthographic projection; intersections; developments. (*b*) Machine drafting, conventional signs for materials of construction, sketching of machine details. (*c*) A course in tinting. (*d*) Topography: conventional signs; hill shading; mapping. Required of Juniors in Course III., and of Seniors in Courses II. and IV. *Both terms, two hours.*

2A. Continuation of Drawing 1. Required of Sophomores in Courses I., III., IV., and VI. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

Professor PATTERSON.

1. General Physics: lectures, with text-book; problems; laboratory work. Required of Sophomores; prerequisite, Mathematics 1. *Both terms, three hours.*
   Laboratory fee, $2.50 a session.

4. Study of Electricity and Magnetism, with laboratory work; Franklin and MacNutt's *Electricity and Magnetism.* Required of Sophomores in Course II. *Both terms, two hours.*
   Laboratory fee, $4.00 a session.

Professor LATTA.

4A. Electrical Machinery: theory and practical operation of direct and alternating current dynamos and motors; testing of typical forms in the laboratory. Required of Juniors in Courses II. and IV., and of Seniors in Course I.; prerequisite, Physics 1 and 4. *Both terms, two hours.*
   Laboratory fee, $4.00 a session.

Professors PATTERSON and LATTA.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine.* Required of Juniors in Courses II. and IV., and of Seniors in Couse I.; prerequisite, Physics 1. *Both terms, three hours.*

Professor LATTA.

7. Alternating Currents and Alternating Current Machinery; lectures and problem work; testing and study of alternating current machines in the laboratory. Text-book: Hay's *Alternating Currents.* Required of Seniors in Course II.; prerequisite, Physics 1 and 4A. *Both terms, four hours.*
   Laboratory fee, $5.00 a session.

8. Primary and Secondary Batteries. Required of Seniors in Course II.; prerequisite, Physics 1 and Chemistry 1. *Fall term, two hours.*

9. Electric Lighting, Wiring, and Distribution: a study of circuits for light and power. Required of Seniors in Course II.; prerequisite, fall term of Physics 7. *Spring term, three hours.*

10. Electric Testing: experimental study of electrical machinery and other apparatus. Required of Seniors in Course II.; prerequisite, Physics 4A. *Both terms, three hours.*

Laboratory fee, $10.00 a session.

11. Steam Machinery; introductory course. Required of Juniors in Course II.; prerequisite, Physics 1 and Mathematics 2. *Spring term, three hours.*

Laboratory fee, $3.00 a session.

DEPARTMENT OF CHEMISTRY

Professor Herty and Dr. Davis.

1. General Descriptive Chemistry: a study of the elements and their compounds, including an introduction to Organic Chemistry; lectures with laboratory work. Required of Sophomores. *Both terms, three hours.*

Laboratory fee: fall term, $1.00, spring term, $1.50.

Professor Herty.

2. Technical Chemistry. (*a*) Industrial and Agricultural Chemistry: glass-making, acids, alkalies, phosphates, fertilizers, foods, clothing, hygiene, etc. (*b*) Metallurgy: mining, treatment of ores, smelting, chlorination, fuel, building materials, etc. Required of Juniors in Courses I. and IV., and of Seniors in Course II.; prerequisite, Chemistry 1. *Both terms, three hours.*

Associate Professor WHEELER and Mr. JORDAN.

3. Qualitative Analysis; laboratory work with lectures. May be taken with Chemistry 1. Required of Sophomores in Courses I., II., and IV. *Both terms, two hours.*

Laboratory fee, $5.00 a term.

Associate Professor MILLS.

4. Quantitative Analysis and Assaying; laboratory work, lectures, and stoichiometric exercises; a grounding in analytical methods. Required of Juniors in Course I., and of Seniors in Course IV., Junior elective in Course II.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, $5.00 a term.

Associate Professor WHEELER.

5. Organic Chemistry. Required of Juniors in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

Laboratory fee, $4.00 a term.

5A. Organic Chemistry; special preparations. Senior elective in Course I. *Both terms, laboratory, two hours.*

Laboratory fee, $6.00 a term.

Professor VENABLE.

6. The Theories of Chemistry. Required of Seniors in Course I.; prerequisite, Chemistry 1, 3, 4, 5. *Both terms, two hours.*

Associate Professor MILLS.

7. Elementary Physical Chemistry. Required of Juniors in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, three hours.*

7A. Physical Chemistry; lectures and text-books, with laboratory work. Senior elective in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*

Laboratory fee, $2.00 a term.

7B. Electro-Chemistry: theory and application of electricity to chemical processes. Senior elective in Course I.; prerequisite, Chemistry 1 and 3. *Both terms, two hours.*

Professor HERTY.

8. Quantitative Analysis; laboratory work; gas analysis and extension of course 4 in technical lines; bacteriological examination of water (with Professor MacNider); research. Required of Seniors in Course I.; prerequisite, Chemistry 1, 3, and 4. *Both terms, five hours.*

Laboratory fee, $10.00 a term.

The Journal Club meets fortnightly. The current journals, American, English, German, and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in all courses except 1 and 3.

DEPARTMENT OF GEOLOGY AND MINERALOGY

Professor COBB and Mr. FRY.

1. Elementary Geology; lectures with field work; laboratory work on the common minerals and rocks. Required of Sophomores in Course IV., and of Juniors in Courses I. and II. *Both terms, three hours.*

Mr. EATON.

2. Mineralogy: lectures with laboratory and field work; Crosby's *Tables* and Dana's *Text-book of Mineralogy*. Required of Juniors in Course IV. and of Seniors in Course I. *Both terms, three hours.*

4. Economic Geology: ore deposits and economic minerals; lectures with laboratory and field work. Required of Seniors in Course IV. and in Third year of Course VI.; prerequisite, Geology 1 and Chemistry 1 and 3. *Both terms, three hours.*

Professor COBB.

6. Advanced field work and special research in Geology or Geography; problems and work adapted to the professional

needs of the student. Required of Seniors in Course IV.; prerequisite, two courses in Geology. *Both terms, three hours.*

8. Origin and Nature of Soils; field work, laboratory, and theses. Required in Second Year of Course V. and in Third Year of Course VI. *Both terms, three hours.*

Professor PRATT.

11. Mineral and Ore Deposits; lectures supplemented by laboratory and field work. Required of Juniors in Course IV. *Twenty-four lectures (Spring term).*

12. Principles and Practice in General Mining; lectures supplemented by visits to different mining regions. Required of Seniors in Course IV.

The Geological Seminary meets fortnightly for review and discussion of current geological literature, and for the presentation of original papers.

Course in Soil Investigation

Professor COBB and Mr. HEARNE.

1. Agricultural Soils: an elementary course covering the nature, origin, and classification of soils, based on G. P. Merrill's *Rocks, Rock Weathering and Soils*, F. H. King's *The Soil*, and reports and bulletins of the Bureau of Soils, U. S. Department of Agriculture; lectures, reading, and field and laboratory work. Open to Juniors and Seniors. *Fall term, three hours.*

2. Soils of the United States: an introductory study of the chief soil provinces, soil series, and soil areas of the United States, with special reference to the soils of North Carolina. Open only to graduates. *Spring term, two hours.*

3. Soil Mapping: preparation of large scale soil maps of the Chapel Hill region. Not counted for a degree.

4. Soil Seminary: study of soil literature with preparation of reports on selected subjects. Open to students engaged in soil work. *One evening each week during February and March.*

THE GRADUATE SCHOOL

COMMITTEE

FRANCIS PRESTON VENABLE, PH.D., LL.D., PRESIDENT.
CHARLES ALPHONSO SMITH, PH.D., LL.D., DEAN.
EBEN ALEXANDER, PH.D., LL.D.
WALTER DALLAM TOY, M.A.

CANDIDATES FOR GRADUATE WORK

Graduates of the University of North Carolina and of other universities and colleges of good standing are, upon application to the President or Dean, ordinarily admitted to advanced courses of instruction free of charge for tuition. There is, however, a registration fee of twelve dollars and a half for each term. An applicant for admission, unless a graduate of the University of North Carolina, is required to present his diploma and a certificate of scholarship and character. If in any department the preliminary training of candidates has not been sufficient to qualify them for strictly graduate work, they will be required to take such undergraduate courses as may be prescribed by the head of the department; but these courses will not be counted for hours in work leading to a graduate degree.

Students who are not graduates may, if they prove themselves qualified, take graduate courses; but no graduate degree will be given to a student who does not already hold a Bachelor's degree from some institution of approved standing.

All courses must be approved by the President or Dean.

DEGREES

The University offers to graduate students advanced work leading to the degrees of Master of Arts (A.M.), Master of Science (S.M.), and Doctor of Philosophy (Ph.D.)

Master of Arts

Candidates for the degree of Master of Arts must complete satisfactorily one year of study consisting of at least fifteen hours a week of recitations or lectures, eight hours of which must be taken from courses in the Graduate Department, the remaining seven from courses in the Graduate Department or from undergraduate courses open only to Juniors and Seniors. The candidate shall select one major subject and two minor subjects. The course as a whole must have unity and must be pursued with definite aim.

A thesis based on the major subject of study and showing capacity for original research must be submitted on or before May 1 of the given year, and must be filed in typewritten form on or before May 15.

MASTER OF SCIENCE

The degree of Master of Science is conferred in the School of Applied Science under conditions similar to those stated above for the degree of Master of Arts.

DOCTOR OF PHILOSOPHY

A candidate for the degree of Doctor of Philosophy is required to pursue, in residence at the University, a prescribed course of advanced study and research in one major subject and two allied minor subjects. In general a term of three years is required, but the degree may be secured in two years in the case of exceptional preliminary training in the major subject.

These requirements of residence and study are, however, entirely secondary. The degree is conferred not simply for faithful study in a determinate field of work for a prescribed period, but because of a high attainment in a special branch of learning, which the candidate must have manifested not only in examination, but by a thesis which gives evidence of independent research and contributes to knowledge. The candidate should choose his major subject in a department in which he has already pursued, for a considerable period, a systematic course of study. To receive this degree,

a knowledge of French and German will be found indispensable in most instances. The thesis must be accepted before the candidate may be admitted to examination. The examinations are both written and oral. They demand a minute knowledge of a special field of work as well as a general acquaintance with the department of learning in which the candidate offers himself for the degree.

COURSES OF INSTRUCTION

DEPARTMENT OF GREEK

Professor ALEXANDER .

7. Greek Drama: Euripides, Iphigenia among the Taurians; Sophocles, Oedipus Tyrannus; Aeschylus, Agamemnon; Aristophanes, Clouds; Aristotle, Poetics. *Both terms, three hours.*

8. Prose Composition, advanced course. *Fall term, two hours.*

11. Greek History: the selections from Greek historians in parts I. and II. of Baumeister's *Quellenbuch zur Alten Geschichte*. *Both terms, two hours.*

12. Bucolic Poetry: the Idylls of Theocritus, Bion, and Moschus. *Both terms, two hours.*

DEPARTMENT OF LATIN

Professor HOWE.

5. Pliny, selected letters; Juvenal, Satires; Martial, selected epigrams; reading with special reference to the private life of the Romans at the close of the first century A. D. *Both terms, two hours.*

9. Roman elegiac poets: rapid reading of selected elegies of Catullus, Tibullus, Propertius, and Ovid; a study of the lives of the elegists; the history of Greek and Roman elegy. *Both terms, two hours.*

11. The study of a particular author or period in Roman literature; practice in rapid reading, with translation of the more difficult passages only. *Both terms, two hours.*

Associate Professor WILSON.

12. Lectures on comparative syntax of Greek and Latin; prin-

ciples illustrated from Homer and Terence. *Both terms, two hours.*

DEPARTMENT OF GERMANIC LANGUAGES

Professor Toy.

3. History of Germanic Literature; lectures with parallel reading and written reports. Prerequisite, German 1. *Both terms, three hours.*

This course alternates with course 7.

Associate Professor Cobb.

4. Middle High German: Paul's *Mittelhochdeutsche Grammatik*; Bachmann's *Mittelhochdeutsches Lesebuch;* translation into New High German. *Both terms, three hours.*

5. Old High German: Braune's *Althochdeutche Grammatik;* Braune's *Althochdeutsches Lesebuch*. *Both terms, two hours.*

This course alternates with course 4; to be omitted in 1909-1910.

Professor Toy.

6. Gothic: Braune's *Gotische Grammatik*; selected parts of Paul's *Grundriss der Germanischen Philologie.* This course is intended to lay a foundation for the philological study of the Germanic dialects. The journals at the disposal of students of Germanic philology are mentioned below under the department of *English*. *Both terms, three hours.*

7. Goethe: Goetz von Berlichingen, Tasso, Dichtung and Wahrheit, Hermann and Dorothea, Faust. In connection with the interpretation of the texts, the life of Goethe will be studied. Selected chapters of Hermann Grimm's *Vorlesungen*, Scherer's *History of German Literature*, Francke's *History of German Literature*, and Bielschowsky's *Goethe, Sein Leben und Seine Werke* will be read. *Both terms, three hours.*

DEPARTMENT OF ROMANCE LANGUAGES

Professor Bruner.

3. The History and Theory of French Tragedy; rapid reading

of the tragedies of Corneille, Racine, Voltaire, and Victor Hugo; constant reference, for purposes of comparison, to other tragedies, both ancient and modern; lectures and discussions. *Both terms, three hours.*

4. The History and Theory of French Comedy; rapid reading of the comedies of Moliere, Regnard, Marivaux, and Beaumarchais; constant reference, for purposes of comparison, to other comedies, both ancient and modern; lectures and discussions. *Both terms, three hours.*

5. Old French Language and Literature, with special reference to the French element in English; rapid reading of Old French texts; lectures on the History of French sounds and inflections. *Both terms, three hours.*

To be omitted in 1909-1910.

DEPARTMENT OF ENGLISH

Candidates for the degree of Doctor of Philosophy who elect advanced work in the English language as their major subject will be expected to take one or more courses in other Germanic languages. All graduate work in the English languages presupposes English 6, or its equivalent, and a reading knowledge of German; but, in exceptional cases, English 6 and German A may be taken along with the English graduate courses.

Associate Professor ROYSTER.

7. Advanced studies in (*a*) Old English and (*b*) Middle English. (*a*) Wyatt's or Heyne's *Beowulf*, Thomas Arnold's *Notes on Beowulf*, Forster's *Beowulf-Materialien*, and the discussion of the Beowulf Saga in volume III. of the *Grundriss der Germanischen Philologie*. (*b*) Skeat's edition of Chaucer's *Minor Poems* and *Legend of good Women*, Book IV. in volume II. of Ten Brink's *History of English Literature*, with selected chapters from Lounsbury's *Studies in Chaucer*, and Ten Brink's *Language and Metre of Chaucer*. *Both terms, two hours.*

8B. (1) The Language of the Elizabethan Period. Discussion of the grammar, syntax, and pronunciation of the late six-

teenth and early seventeenth centuries. (2) Studies in the non-dramatic literature of the Elizabethan Period. Seniors admitted only after consultation with the Instructor. *Both terms, two hours.*

This course alternates with course 8A.

Professor SMITH.

12. English Syntax. Problems in advanced grammar will be studied historically. The course will consist chiefly of lectures; Sweet's *Syntax* (volume II. of his *New English Grammar*), Smith's *Studies in English Syntax*, Kellner's *Historical Outlines of English Syntax*, Einenkel's *Syntax* (in volume I. of the *Grundriss der Germanischen Philologie*), and recent theses on questions of syntax. *Both terms, two hours.*

Professor GRAHAM.

13. English Literature 1690-1789; lectures and study of special texts. Topics discussed during the first term: the rise and culmination of Classicism in poetry, the development of prose; during the second: the decline of Classicism and the beginnings of Romanticism. *Both terms, two hours.*

14A. English Poetry 1840-1908; lectures and studies of assigned texts. The work will be based upon representative selections from Tennyson, Robert Browning, Arthur Hugh Clough, Rossetti, Matthew Arnold, Swinburne, William Watson, and Kipling. *Both terms, two hours.*

This course alternates with course 14B; to be omitted 1909-1910.

14B. American Poetry 1830-1908; lectures and studies of assigned texts. *Both terms, two hours.*

This course alternates with course 14A.

Among the publications accessible to graduate students of English and German may be mentioned: *Anglia und Beiblatt*, (complete set), *Englische Studien*, (complete set), *Herrig's Archiv*, *Paul and Braune's Beitraege* (complete set), *Publications of the Modern Language Association of America*, *Modern Language Notes*, *Modern Language Review* (London), *Dialect Notes*, *Publications of the Early English Text Society* (complete set), *Journal of English and Germanic Philology*.

DEPARTMENT OF PHILOSOPHY

Professor WILLIAMS.

5. Epistemology: a study of the Critical Philosophy; lectures; theses. First term: Prolegomena and Practical Reason and the works that prepared the way for Kant. Second term: *Kritik der reinen Vernunft*. *Both terms, three hours.*

DEPARTMENT OF HISTORY

Associate Professor WAGSTAFF.

9. Seminary: lectures and reports on certain selected topics of American history; discussion of the methods of original historical research. Open also to approved Seniors. *Both terms, two hours.*

Professor HAMILTON.

10. Civil War and Reconstruction: a detailed study of the constitutional, political, and economic phases of the Civil War and Reconstruction; lectures, readings, and reports. Open also to approved Seniors. *Both terms, two hours.*

14 American Politics: lectures and research in the history of the political parties in the United States. *Both terms, two hours.*

Associate Professor WAGSTAFF.

13. The American Constitution: research in the history of the Constitution of the United States. *Both terms, two hours.*

DEPARTMENT OF ECONOMICS

Professor RAPER.

3. Economic Institutions and Thought in England and the United States; a general study, largely from the historical point of view, of the economic institutions and the systems of economic thought in England and the United States; a special study of socialism. Lectures, readings, and reports. Cheyney's *Industrial and Social History of England*, Brooks's *The Social Unrest*, Spargo's *Socialism*, *Communist Manifesto* (Marx and Engels). *Both terms, two hours.*

DEPARTMENT OE MATHEMATICS

Professor Cain.

4. Calculus, Analytic Mechanics. Prerequisite, Mathematics 2. *Both terms, three hours.*

Professor Henderson.

5. Theory of Equations (Burnside and Panton). *Both terms, three hours.*

6. Differential Equations (Murray). *Both terms, three hours.*

Associate Professor Stacy.

7. Railroad Surveying and Railroad Engineering. *Both terms, three hours.*

7A. Hydraulics, Sanitary Engineering. *Both terms, three hours.*

Professor Cain.

8. Mechanics of Materials. Prerequisite, Mathematics 4. *Both terms, three hours.*

Associate Professor Stacy.

10. Stresses in Bridges and Roof Trusses, Graphical Statics. Prerequisite, Mathematics 4. *Both terms, four hours.*

Professor Cain.

11. Arches, Dams, and Sanitary Engineering. May be taken with Mathematics 12. *Both terms, three hours.*

12. Graphical Statics. Prerequisite, Mathematics 4. *Spring term, three hours.*

15. Advanced Differential and Integral Calculus (Byerly, Edwards); lectures. *Both terms, two hours.*

DEPARTMENT OF PHYSICS

Professor Patterson.

2. Modern Electrical Theory; the electron theory, electrolysis, conduction of electricity through gases, electrical nature of

matter, radioactivity. Prerequisite, Physics 1. *Both terms, two hours.*

Professors PATTERSON and LATTA.

6. Advanced Heat and Thermodynamics. This study is based on Edser's *Heat for Advanced Students*, Ewing's *The Steam Engine and Other Heat Engines*, and Peabody's *Thermodynamics of the Steam Engine*. Prerequisite, Physics 1 and Mathematics 2. *Both terms, three hours.*

Professor LATTA.

7. Alternating Currents and Alternating Current Machinery; testing and study of alternating current machines in the laboratory; lectures and problem work. Text-book: Hay's *Alternating Currents*. Prerequisite, Physics 1 and 4A. *Both terms, four hours.*

9 Electric Lighting, Wiring, and Distribution: a study of circuits for light and power. Prerequisite, fall term of Physics 7. *Spring term, three hours.*

10. Electric Testing: experimental study of electrical machinery and other apparatus. Prerequisite, Physics 7. *Both terms, three hours.*

DEPARTMENT OF CHEMISTRY

Professor HERTY.

11. Research in Inorganic, Analytical, and Industrial Chemistry. This course (with 12 and 13) is intended only for applicants for the degree of Doctor of Philosophy or properly equipped students who desire special training in advanced chemical research. It requires, in addition to the laboratory work, daily conference with the professor and continual reference to the literature touching the matter under investigation. The work is usually assigned by the professor, but by special permission the student may elect to work upon problems to which he wishes to give particular attention. *Both terms, six hours.*

Associate Professor WHEELER.

12 Research in Organic Chemistry. The statements made in regard to course 11 apply also to this course. *Both terms, six hours.*

Associate Professor MILLS.

13. Research in Physical Chemistry. Acquaintance with the Calculus is required for this course. *Both terms, two hours.*

Professor HERTY.

14. Advanced Inorganic Chemistry. The elements are studied with the idea of showing the fundamental laws of Chemistry and the deepseated relations involved in and leading up to the Periodic System. Attention is also given to those portions of Inorganic Chemistry not usually dwelt upon in the regular courses. The applications of physico-chemical laws and generalizations are emphasized throughout the course. *Both terms, two hours.*

Associate Professor WHEELER.

15. Advanced Organic Chemistry. The most important modern investigations are reviewed and, in addition, special consideration is given to Class Reactions with reference to their application to organic research. *Both terms, two hours.*

The *Journal Club* meets fortnightly. The current journals, American, English, German, and French, purely scientific and technical, are reviewed by the students and instructors. Attendance upon the meetings of the Club is expected of all students taking the above courses.

DEPARTMENT OF BIOLOGY

Zoology

Professor WILSON.

2. Comparative Anatomy and Embryology of the Vertebrates; study of types of fishes, amphibia, reptiles, birds, mam-

mals; development of the characteristic vertebrate organs in the frog and chick; fundamentals of microscopic technique; laboratory work with occasional lectures. *Both terms, three hours.*

3. Comparative Anatomy and Embryology of the Invertebrates; dissection and microscopic study of types of the chief orders, with some consideration of their embryology; laboratory work with occasional lectures. *Both terms, three hours.*

4. Animal Morphology: advanced zoological work, with detailed study of problems in comparative anatomy or embryology; laboratory work with use of classical text books and orignal memoirs; theses. *Both terms, five hours or more.*

Botany

Professor COKER.

2. Special Morphology of the mosses, ferns, and higher plants, with particular consideration of homologies; lectures with laboratory and field work. *Both terms, three hours.*

3. Special Morphology of the Algae and Fungi, with attention to the culture of lower fungi, and the identification of mushrooms; lectures with laboratory and field work. *Both terms, three hours.*

4. Plant Morphology: advanced work in the embryology and anatomy of plants. The student is required to collect and prepare material for the microscopic study of special problems. Theses. *Both terms, five hours or more.*

DEPARTMENT OF GEOLOGY

Mr. EATON.

5. Petrography; lectures, laboratory work, and theses. *Both terms, three hours.*

Professor COBB.

6. Advanced field work and special research in geology and geography; problems assigned individually and work

adapted to the professional needs of the student. *Both terms, three hours.*

9. Research course in historical geology. *Both terms, three hours.*

DEPARTMENT OF EDUCATION

Pedagogy

Professor NOBLE.

5. The study of childhood in transforming modern methods of studying and teaching educational science; readings, discussions and theses. *Fall term, two hours.*

6. Herbartian Pedagogy. The attempt is made in this course to investigate the Herbartian movement in Germany and in the United States. The works of Rein, Story, Ziller, Lange, and others are studied. Theses. *Spring term, two hours.*

7. American Education: a study of the development of public and private school systems in the United States; research and lectures. *Both terms, two hours.*

MEDALS AND PRIZES

The Colonial Dames Prize. (Established in 1908). The North Carolina Society of Colonial Dames offers annually a first prize of fifty dollars and a second prize of twenty-five dollars for the best essays on some subject connected with the Colonial Period in North Carolina.

The Literary Essay Medal. (Established in 1890). A gold medal is offered annually by Professor Thomas Hume to that member of the Senior Class who shall present the best essay or thesis on some distinctly literary subject.

The Mangum Medal in Oratory. (Established in 1878.) A gold medal founded by the Misses Mangum, late of Orange county, in memory of their father, Willie Person Mangum, is continued by his granddaughters, Mrs. Julian A. Turner, Mrs. Stephen B. Weeks, and Miss Preston Leach, and awarded to that member of the Senior Class who shall deliver the best oration at Commencement.

The Bingham Prize in Debate. (Established in 1899.) This prize is offered by Mr. R. W. Bingham in memory of his great-grandfather, grandfather, father, and brother. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held on Monday evening of Commencement week.

The Kerr Prize in Geology and Mineralogy. (Established in 1889.) A prize of fifty dollars is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Caruthers Kerr, to any undergraduate or graduate student, for the best thesis containing original work in the geology or mineralogy of North Carolina.

The Greek Prize. (Established in 1887.) A prize of ten dollars is offered annually to that member of the Sophomore class,

who shall present the best rendering into English of selected passages of Greek not previously read.

The Worth Prize in Philosophy. (Established in 1883.) Mr. Charles William Worth, in memory of his father, David Easton Worth, of the class of 1853, will print the best thesis submitted by a student in Philosophy 4.

The Early English Text Society Prize. (Established in 1886.) A special prize is offered annually by the Early English Text Society, of London, for advanced work in Anglo-Saxon and Middle English.

The Bryan Prize. (Established in 1903.) A prize will be given annually by Mr. William Jennings Bryan for the best thesis in Political Science.

The Hunter Lee Harris Memorial. (Established in 1903.) Dr. Charles Wyche, of St. Louis, offers annually in memory of Hunter Lee Harris, of the class of 1893, a gold medal for the best original story by any student in the University.

The Thomas Hume Prize. (Established in 1904.) A prize of fifty dollars is offered annually by Mr. W. G. Peckham, of New York, for the best work in the Old English Ballads and Shakspere or Milton.

Certain prizes are offered also in the Professional Schools of Law, Medicine, and Pharmacy. For these, see under the several schools.

PECUNIARY AID AND EXPENSES.

Fellowships and Scholarships.

The Toch Fellowship in Chemistry. (Established in 1905 by Mr. Maximilian Toch.) The holder is expected to devote himself to research work in technical chemistry. This fellowship yields $200 annually.

The Sutherland Fellowship in Chemistry. (Established in 1906 by Mr. Phocius Leonidas Sutherland.) The holder is expected to devote himself to research in Chemistry. This fellowship yields $200 annually.

The Cameron Scholarships. (Established in 1892.) The heirs of Paul Carrington Cameron founded, in his memory, ten scholarships of the value of sixty dollars each.

The Dialectic and Philanthropic Literary Societies' Scholarships. (Established in 1893.) The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of sixty dollars each, recipients of which shall give assistance in the library.

The Moore Scholarships. (Established in 1881.) Bartholomew Figures Moore, of Raleigh, bequeathed five thousand dollars, the interest of which shall be devoted to paying the tuition of students.

The Mary Ann Smith Scholarships. (Established in 1891.) Miss Mary Ann Smith bequeathed thirty-seven thousand dollars for the foundation of scholarships, the number of scholarships to be determined by the amount of income.

The Mary Ruffin Smith Scholarships. (Established in 1885.) Miss Mary Ruffin Smith bequeathed to the University, in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land in Chatham county of fourteen hundred and sixty acres, known

as Jones's Grove. The will provides that the rents of the land, or the interest on the purchase money, if sold, shall be used to pay the tuition of such poor students as the Faculty shall appoint.

The Speight Scholarships. (Established in 1892.) The late Mrs. Mary Shepard Speight bequeathed ten thousand dollars to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of the professors.

The Wood Scholarship. (Established in 1892.) Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of sixty dollars.

The Weil Scholarship. (Established in 1898.) A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of sixty dollars.

The Armfield Scholarships. (Established in 1901 and 1904.) These scholarships are founded by the generosity of Mr. Eugene M. Armfield, of the class of 1888, Highpoint, N. C.

The Alumni Scholarships. These scholarships have been established by the gifts of Alumni. A scholarship will be awarded for each one thousand dollars given.

The Kenneth Murchison Scholarships. (Established in 1904.) These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

None of these scholarships is open to students in the professional Schools of Law, Medicine, and Pharmacy.

All applications for scholarships must be filed in the President's office on or before August 15, and must be in the regular form prescribed by the University. Blank forms are supplied on application to the Registrar.

Free Tuition

By an act of the Legislature in 1887, free tuition is given to candidates for the ministry, to the sons of ministers, to young

men under bodily infirmity, to teachers, and to young men preparing to teach. This enables the University to aid effectively the public school teachers of the State.

Loan Funds

The Deems Fund. (Established in 1879.) A fund of six hundred dollars was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a Professor in the University, in memory of his son, Lieutenant Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt, by gift of ten thousand dollars, "as an addition to the Deems fund, to be loaned to indigent students of the University."

The Martin Fund. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of this fund can be used for loans. It became available during the session of 1907-1908.

All applications for loans must be filed in the President's office on or before August 15.

Applications for loans will not be considered unless accompanied by testimony from responsible persons as to poverty and merit. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest.

Expenses

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The charges for each of the two terms are as follows:

Tuition fee	$30.00
Fee for Matriculation, etc	12.50
Total	$42.50

Students taking courses in the laboratories are charged a small fee for materials. Every student must keep on deposit with the Bursar two dollars as security for damages. Willful damage to University property is charged to the perpetrator, if known, other-

wise it is charged to the general deposit for damages. Any balance is returned to the student at the end of the year.

Excellent board is furnished at the University Inn for fifteen dollars a month. Good board also is furnished at Commons for ten dollars a month. A few students earn their board at Commons by waiting on the tables. In private clubs board may be reduced to a minimum of six dollars a month. The entire annual expenses need not exceed three hundred dollars, and they may be reduced to two hundred dollars.

It is confidently believed that no institution offers wider opportunities of self-help to meritorious students of slender means. The desire is that no worthy boy, however poor, shall ever be turned away for lack of means. To such the University and town offer unusual opportunities for support. Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or borrowed. Seventy are aided by loans, and about five hundred have received aid from the University in loans and scholarships in the past twenty years. A few students are selected by the authorities as waiters at commons. Otherwise all opportunities available in the University and town must be secured by the personal efforts of the individual, or with the assistance of the Faculty Committee on Self-Help. They are not assigned by the President.

Dormitory Accommodations

The University buildings contain two hundred and four unfurnished double rooms, available for the accommodation of students. There is no charge for service in addition to the rent. All rooms are fitted with electric lights. Room rent ranges from 75 cents to $2.75 a month for each occupant, the price depending upon the location of the room.

All the buildings of the University are heated by hot water according to the most improved methods. In the dormitories the charge for light and heat will be $2.00 a month for each room.

REGULATIONS

Registration

All students are expected to present themselves for registration on *Monday*, *Tuesday*, or *Wednesday*, *September 6*, *7*, or *8*, *1909*, and *Monday* or *Tuesday*, *January 3* or *4*, *1910*, between the hours of 9 A. M. and 4 P. M., at the office of the Registrar.

Arrangement of Courses

Every student, when he presents himself for registration, must submit a list of courses, required and elective, which he desires to pursue.

No student will be allowed to take less than 15 hours, nor more than 18 hours of class-room work a week without special permission of the Faculty or of the President.

Students desiring to change their courses must make written application to the President for the desired change. The application will be considered by the President and the instructors in the departments concerned and will be granted only after a careful consideration of the facts in each case. No changes will be permitted after the first Tuesday following the registration days except such as are granted after application to, and approval by, the Faculty.

Candidates for more than one degree shall not offer the same elective in two courses nor a required study in one course as an elective in another.

Assignment of Rooms

The University buildings contain two hundred and four unfurnished double rooms, available for the accomodation of students. These rooms are assigned to students by the Bursar, at the beginning of each term, in the order of application.

The President reserves the right to require any student whom for any reason he considers an undesirable tenant to vacate a room in the University buildings.

All occupants are required to sign a contract subject to the following special rules:

1. In order to retain his room for the next session, a student must notify the Bursar in writing before *May 20*.

2. The room thus signed for will be retained until the *first day of September*, provided a deposit of $10 be made with the Bursar on or before that date. This deposit will be forfeited in case the room so retained is not rented for the first term. In order to have a room reserved beyond the above date, the rent for the first term must be paid. Double rooms signed for by only one person will not be retained after that date unless the full rent has been paid. No one signing for a room can transfer the same.

3. Rooms not signed for or forfeited by failure to pay at the proper date will be assigned in the order of application.

4. No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

Conduct

By order of the Board of Trustees the Faculty is directed to dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form, or to be guilty of dissolute conduct.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism, may be requested to leave the University.

Attendance

Regular attendance upon lectures and recitations is required of all students.

In any term, absences are counted from the first regular meeting of each class. In no case will a student be consided present at any class until he has been registered as a member of that class. No student will be allowed more than five unexcused absences during a month. When this number is exceeded he will be notified that any unexcused absence on his part during the subsequent

month will necessitate his withdrawal from college. This notice will be sent to his parents or guardian also.

Any student whose absences from a class during any month equal the number of scheduled meetings of the class for one week is required to stand a special examination on that month's work, within the first two weeks of the succeeding month at an hour to be announced by the instructor. In the case of those whose absences in a given month reach the number indicated above, and who fail to stand the examination provided for such absences, it is left to the discretion of the instructor to retain them in his class.

Students who are absent from a class during the months of December, January, or May as much as 25 per cent. of the scheduled meetings of the class, must stand an examination for these months before being entitled to any grade on the term examination. This special examination is to be held in connection with the regular term examination, or at some time during the examination period.

Students who are absent during any term as much as $33\frac{1}{3}$ per cent. of the scheduled meetings of the class, except in case of prolonged sickness necessitating at least half the absences, may at the descretion of the instructor be debarred from the term examination.

Attendance at Chapel is compulsory for all students in the University except for members of the professsional departments and for such others as are specially excused. Absence from Chapel will subject the student to discipline by the Executive.

No student is allowed to absent himself from the University without written permission from the President or his representative. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

Examinations

Regular examinations in all subjects are held at the close of each term. Excuses from examinations are granted only in case of absolute necessity. Such an excuse, to be valid, must be

obtained from the President by the day of examination, and communicated officially to the instructor holding the examination.

Freshmen, Sophomores, and Juniors who have been excused from an examination or have received the grade 5 (see page 107) in any subject will be given two and only two opportunities to make good the deficiency by special examination. Those conditioned on the Fall term of a subject may make good the deficiency either in the following September, according to the schedule given below, or at the regular examination of the next lower class in January. Those conditioned on the Spring term of a subject may make good the deficiency either in the following September, according to the schedule given below, or at the regular examination of the next lower class in May. In case a student fails in both of the special examinations, he must repeat the subject with the class of the succeeding year. If the unremoved condition be in an elective subject not offered for the succeeding year, the student must take another elective valued at the same number of hours.

Seniors who have been excused from an examination or have received the grade 5 in any subject at either the Fall or Spring examination will be given but one opportunity to make good the deficiency by special examination, viz., during the regular examination period of the three lower classes in May.

Papers handed in at special examinations by students who have been officially excused from the regular examination will be graded. All others will be marked either "passed" or "failed." Students who hand in papers at regular examinations are considered to have relinquished any claim to grades on special examinations.

Students who absent themselves from regular examinations without having obtained an official excuse, and those who are present at the regular examinations but do not hand in papers, are given the grade 6 (see page 107). They are required to repeat the subject with the next lower class, or, in case of an elective not offered in the succeeding year, to take another elective valued at the same number of hours.

A student wishing a special examination in any subject must

deposit an application in the office of the Registrar at least one week before the beginning of the period of regular examinations.

Each student is required to subscribe his name to the following pledge on every paper: I hereby certify that during this examination I have neither given nor received aid. No paper without the pledge will be read.

The order of examinations for the removal of conditions in September, 1909, will be as follows:

Wednesday, September 1.

10 A. M.	Physics. Greek.	2:30 P. M.	Chemistry. History. Economics.

Thursday, September 2.

10 A. M.	English.	2:30 P. M.	Zoology. Botany.

Friday, September 3.

10 A. M.	German. French.	2:30 P. M.	Mathematics.

Saturday, September 4.

10 A. M.	Latin. Philosophy.	2:30 P. M,	Geology. Pedagogy.

Standing

Semi-annual reports of the standing of all students in all the studies of the previous term are sent to parents or guardians. These reports are based upon the following system of marking:—

Grade 1, 95-100 per cent.
Grade 2, 90-95 per cent.
Grade 3, 80-90 per cent.
Grade 4, 70-80 per cent.
Grade 5, 60-70 per cent.
Grade 6, below 60 per cent.

Students must attain a grade of 4 to pass in any study. Grade 5 indicates that the student is conditioned, but may remove the deficiency by special examination as explained on page 106. Students receiving grade 6 in any study must take such study again with the next lower class, or in case of an elective not offered in the succeeding year, must take another elective valued at the same number of hours.

A student who has failed to pass all the examinations of the year in any College study may not take a higher class in that department, until he makes good his deficiency.

A student who, at the close of the period of special examinations in September, is deficient by an amount equal to eight hours of class-room work for a year will be ranked with the next lower class.

In addition to the semi-annual reports, there are sent out during the session six monthly reports in which the standing of students is indicated in a general way.

Certificates

A certificate is granted to a student who has completed, with credit, in any department except those of Mathematics, Chemistry, Physics, and Geology, all work required for a degree together with elective work also in the same department. (For detailed statement of requirements see under the several departments of instruction.)

Graduation

Each Senior will be officially informed by the Registrar in August of all deficiencies standing against him.

Every member of the Senior Class is required to write a thesis or an oration for graduation. Those electing theses must announce their subjects by February 1 to the Dean of the Faculty, who will report them to the professors in the departments concerned. On May 2 the theses shall be read before the professors, subject to criticism and correction. The corrected and approved theses must be handed to the Registrar in typewritten form on or before May 15.

The number of orations is limited to four. The candidates must be members of the College or the School of Applied Science, and must announce their subjects to the Dean of the Faculty by February 1. The orations shall be delivered in private before a committee of the Faculty on May 1, who shall decide upon the relative merits of the orations. The four successful candidates are known as the Commencement Orators of the Senior Class.

Athletic and Other Organizations

No student will be allowed to take part in athletic contests, concerts, debates, etc., entailing absence from the University, whose parent or guardian objects to such participation.

A student who was in attendance upon the University during a previous term or session must have passed satisfactory examinations upon at least six hours of work before he will be allowed to represent the University in any athletic contest or in any other public capacity.

No student reported as deficient in a majority of his classes may participate in any athletic contest or otherwise publicly represent the University, until the deficiency is made good.

No team or club will be allowed to be absent from the University for more than five lecture days during the term.

The manager of each athletic team or musical club shall submit to the President a schedule of all engagements before positive arrangements are made.

The rules governing the eligibility of players are as follows:

1. Before any student can become a member or a substitute member of any athletic team in the University, and take part in any intercollegiate contest, he must make application to the Committee on Athletics in the University and secure the endorsed approval of that Committee to his application. It shall be the duty of the Athletic Committee to have the executive officers of the University endorse such application to the effect that the applicant is a regular student of the University, registered within thirty days after the beginning of the fall session.

2. It shall be the duty of the Athletic Committee to inquire into and make a record of the athletic experiences of the applicant,

and it shall be the duty of the applicant to appear before the Committee and answer on his honor such questions as the Committee may see fit to ask.

3. It shall be the duty of the Athletic Committee to require a pledge in writing of the applicant, certifiying on his honor that he has never accepted directly or indirectly remuneration, compensatory gift, valuable consideration, or promise thereof, for his athletic services, and that he is in the proper and strict sense of the word an amateur player in collegiate athletic sports, before the Committee endorses his application.

4. No student of this University who has been a member or a substitute member of a baseball or football team at another college or university shall be permitted to become a member of either baseball or football team at this University during the session in which he matriculates and until he shall have been a student in residence at this University for at least five months.

5. No person whose name is in the faculty list or appears in the catalogue list of officers of instruction and administration of the University, and who receives remuneration therefrom, shall be a member of any athletic team representing the University.

6. Whereas a member of an athletic team of this University is a representative student and enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is discreditable.

7. Any student who has participated as a player on a college team in either football or baseball for a period of four years shall thereafter be ineligible for such athletic contests of the University.

Fraternities

Undergraduate students may join fraternities after registration in their Sophomore year. Fraternity men are not allowed to pledge Freshmen to join fraternities.

THE SCHOOL OF LAW

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., *President.*
JAMES CAMERON MACRAE, LL.D., *Dean.*

JAMES CAMERON MACRAE, LL.D., *Professor of Law.*
LUCIUS POLK MCGEHEE, A.B., *Professor of Law.*
THOMAS RUFFIN, LL.M., D.C.L., *Professor of Law.*
CHARLES LEE RAPER, PH.D., *Professor of Economics.*
JOSEPH GREGOIRE DE ROULHAC HAMILTON, PH.D., *Alumni Professor of History.*
WILLIAM DEBERNIERE MACNIDER, A.B., M.D., *Lecturer on Medical Jurisprudence.*

HISTORICAL SKETCH

The School of Law is the outgrowth of a Law School established in 1843 at Chapel Hill, on a private foundation, by Hon. William H. Battle, who was then a judge of the Superior Court of North Carolina and later became a justice of the Supreme Court of the State. Judge Battle was assisted by Hon. Samuel F. Phillips, a member of the Bar of North Carolina, who afterwards was Solicitor General of the United States under the administrations of Presidents Grant, Hayes, Garfield, and Arthur. In 1845 this school was incorporated into the University, and Judge Battle was made Professor of Law, in which capacity he served until the closing of the University in 1868. The courses offered covered the requirements for admission to the Bar of North Carolina, and occupied the time of independent students for two years, or were sometimes completed by students doing additional work in the College in two and one-half years; and the degree of Bachelor of Law was conferred upon those students satisfactorily accomplishing the full course.

With the reopening of the University in 1875, the School of Law was revived by Judge Battle, and upon his retirement in 1879 the classes were conducted by Hon. Kemp P. Battle, then President of the University; and this continued until 1881, when President Battle was relieved from such duties by the election of Hon. John Manning as Professor of Law.

From 1881 until his death in 1899, Professor Manning was in charge of the School, assisted during much of the time by Hon. James E. Shepherd, Chief Justice of the Supreme Court, by Hon. J. Crawford Biggs, now a judge of the Superior Court, and by Thomas D. Warren, Esq., who has since become a prominent member of the Bar of North Carolina. During these years the scope of the School was enlarged and its attendance and influence greatly increased. Much that is good, now felt in methods and spirit, is due to the administration of Professor Manning.

In 1899 Hon. James C. MacRae, sometime a judge of the Superior Court and later a justice of the Supreme Court of North Carolina, became Professor of Law and Dean of the School; and in 1900 Mr. Thomas Ruffin succeeded Mr. Biggs as Associate Professor of Law. In 1903 Mr. Ruffin was made a professor, and, upon his resignation in 1904, was succeeded in this position by Mr. Lucius P. McGehee, formerly Associate Editor of the American and English Encyclopaedia of Law. In 1907 a third professorship was created by the Board of Trustees, and Mr. Ruffin was recalled from active practice to fill this position.

With the enlargement of the faculty to a corps of three professors, who give their entire time to the teaching of law, the curriculum of the School has been readjusted and much enriched, and now presents work requiring the full time of the student for at least two years, and sufficient, it is believed, to equip him thoroughly for the practice of law in the State of North Carolina or in any other State of the Union having the common law of England as a basis of its jurisprudence.

GENERAL OBJECTS OF INSTRUCTION

The objects of the instruction here offered are, through means of text-books, cases, lectures and moot-court practice, to teach the

principles of jurisprudence as applied in America; to bring before the mind of the student the nature and growth of law; to show that our legal principles lie imbedded in our basic conceptions of justice and right; to trace the development of these principles, historically: to inculcate habits of independent thought and legal reasoning, giving prominence to the reasons for propositions of law rather than to the concrete propositions themselves;—and thus to give to the student a proper foundation whereupon to make of himself a scientific lawyer, through a comprehension of theoretical principles and a development of his reasoning faculties in the logical application of those principles to practical statements of fact.

ARRANGEMENT OF COURSES

Six regular courses, three for the Junior Law Class and three for the Senior Law Class, are arranged for those students taking the work leading to the degree of Bachelor of Laws. Each course begins in September and ends in May of the University year. Thirteen and one-half hours of class instruction a week, divided into nine lectures of one and one-half hours each, are provided for each of the two classes; and to the courses as now scheduled two or three additional hours of lectures a week are expected soon to be offered in both Junior and Senior Years. Dr. MacNider will also deliver a special series of lectures on Medical Jurisprudence, at times hereafter to be announced; and law students registered for less than three of the regular courses, or whose engagements otherwise permit, will be admitted without additional expense to the college courses in Economics and History of Professors Raper and Hamilton. Also, from time to time, distinguished members of the Bench and of the Bar will be invited to deliver lectures upon special topics before the School.

REQUIREMENTS FOR ADMISSION

A good English education is essential to success at the Bar, and the completion of a full collegiate course before beginning the study of law is urged in all possible cases. No absolute requirement in scholarship, however, is prescribed for candidates for admission into the School, except that all applicants for the degree

of Bachelor of Laws shall have satisfactorily completed academic courses equivalent to those prescribed for the Freshman and Sophomore classes in the University. Other students than applicants for degrees may be admitted upon satisfying the Dean of their possession of such education as will enable them to make fair use of their opportunities in the School of Law.

Seniors in the College will be admitted to courses I., II., or III., as stated on page 37.

All candidates for admission should present themselves on the same days and at the same hours as candidates for admission to the College, either in September or January; and students already members of this School, as well as all students first matriculating, must conform to the regulations for registration found on page 103.

DEGREES

The degree of Bachelor of Laws (LL.B.) will be conferred upon those students who shall have applied for the same during a residence of at least two years at the University, and who have, in the opinion of the faculty, completed with credit the courses prescribed for the Junior and Senior Law Classes (including any work additional to that below scheduled which may hereafter be assigned to these courses), and who shall have submitted approved theses on legal subjects satisfactory to the Dean of the law faculty; provided that in every case they shall have conformed to the requirements before stated as to preliminay education. A diligent student may by accomplishing three courses each year prepare himself for this degree in two years; or the student who prefers to take the work more deliberately, with fuller opportunity for reflection and parallel reading, will find two courses each year for three years suitable to this purpose.

A plan has now been proposed providing for further enlargement of the courses; and the Law faculty has been authorized to formulate a scheme embodying such changes, with a view to requiring three years' study of law of all candidates for the degree of Bachelor of Laws. Such change will not go into effect until announced by a subsequent catalogue.

COURSES OF INSTRUCTION

For the Junior Law Class, Courses I., II., and III., as follows:

Course I., by Professor MacRae, embracing the Law of Evidence, Public and Private Corporations, and Executors and Administrators.

The text-books used the past year were Greenleaf on Evidence (Vol. 1), supplemented by statutes; Clark on Corporations and the Statutes of North Carolina, Dillon on Municipal Corporations, and Schouler on Executors and Administrators.

Course II., by Professor McGehee, embracing the Law of Contracts, Crimes, Torts, and Bailments.

The text-books used the past year were Clark on Contracts, May on Criminal Law, Burdick on Torts, Goddard's Outlines of Bailments and Carriers.

Course III., by Professor Ruffin, embracing the Law of Persons (Domestic Relations and Sales), Personal Property, and Real Property.

The text-books used the past year were Blackstone (Vol. 1), Long on Domestic Relations, Griffin's Cases on Personal Property (including Sales), Blackstone (Vol. 2), and Tiffany on the Modern Law of Real Property.

For the Senior Law Class, Courses IV., V., and VI., as follows:

Course IV., by Professor MacRae, embracing Constitutional Law, Jurisdiction of Courts, Pleading and Civil Procedure, Bankruptcy, Admiralty, and International Law.

The text-books used the past year were Cooley's Principles of Constitutional Law, Blackstone (Vol. 3) and Code of Civil Procedure, Davis on International Law, Statutes and Lectures on Bankruptcy, and Hughes on Admiralty.

Course V., by Professor McGehee, embracing the Law of Insurance, Quasi-Contracts, Negotiable Paper, and Agency.

The text-books used the past year were Richards on Insurance, Bigelow's cases on Negotiable Instruments and

The Negotiable Instruments Law, Huffcut on Agency, and Woodruff's Cases on Quasi-Contracts.

COURSE VI., by Professor Ruffin, embracing Equity Jurisprudence and Equity Pleading, Conflict of Laws, and Partnership.

The text-books used the past year were Bispham on Equity, Heard's Equity Pleading, Minor on Conflict of Laws, and Burdick on Partnership.

SCHEDULE OF RECITATIONS

	8:45 to 10:45	10:45 to 11:45	12:00 to 1:30
MONDAY	MacRae IV*	McGehee II	Ruffin VI
TUESDAY	MacRae I	McGehee V	Ruffin III
WEDNESDAY	MacRae IV	McGehee II	Ruffin VI
THURSDAY	MacRae I	McGehee V	Ruffin III
FRIDAY	MacRae IV	McGehee II	Ruffin VI
SATURDAY	MacRae I	McGehee V	Ruffin III

QUALIFICATIONS FOR LICENSE TO THE NORTH CAROLINA BAR

By the rules of the Supreme Court, Examinations are held for admission to the Bar of North Carolina in August and February of each year. Two years of preparatory study are required to qualify applicants for the examinations. This study, however, is not required to be done in a law school, and the course of reading prescribed by the court may be covered by a diligent student within less time than two years. Therefore, in order to prepare

*These numerals refer to the numbered courses as found on the preceding page.

for the Bar examination in one year students who have previously read law for a year elsewhere, the courses above outlined have been arranged so as to include within one scholastic year and an additional summer term (hereafter to be mentioned) the entire course of reading prescribed by the court. Through this arrangement a student who cannot remain in this School two years may enter either in September or in January, and, by taking the courses open to him in the scholastic year and at a summer term may fulfill all qualifications as to the amount of reading required for the Bar examination within twelve months from his entrance.

It is urged that all students who possibly can shall take a full two years course in a law school before applying for license to practice; for it is coming more and more to be recognized that such a period, or even a longer time, under skilled instructors, is necessary to the proper qualification of the lawyer; and certainly a lesser time is believed to be insufficient for the student to digest the law that he must learn or to acquire the habits of thought and mental attitude of the lawyer. The suggestion of the one year's work is made, therefore, for those students who find it impossible to prosecute their studies longer in this School.

The satisfactory accomplishment of the courses including the work thus suggested will entitle the student to a certificate to that effect from the Dean of the law faculty.

MOOT COURT

The Moot Court has become an important factor in legal educational methods, in familiarizing the student with the practical side of law. It is the purpose of the University Court to acquaint the student with the legal details so necessary to be acquired, yet so difficult of access; and, in order to facilitate this work, the Court has been formed into two divisions, Civil and Criminal, each with its own judge and other officers. Sessions of both courts are held weekly, and, through regular assignments of cases, every student of the School has frequent opportunities for practice. The work embraces preparation of cases for trial, drawing of pleadings, selection of jurors, examination of witnesses, arguments on law and facts to judge and jury, and preparation and argument of

appeals,—all according to the forms of practice of the North Carolina Courts.

The organization for the Spring Term, 1909, was as follows:

Court of Appeals

Judge, Professor MacRae.

Superior Court
(Civil Division)

Judge, S. G. Hudson.
Clerk, H. L. Perry.
Sheriff, L. L. Davenport.

Superior Court
(Criminal Division)

Judge, J. T. Morehead, Jr.
Clerk, H. L. Perry.
Solicitor, S. T. Stancell.
Coroner, E. H. Gorham.

UNIVERSITY PRIVILEGES

Besides the Moot Court, there are open to all students of this School the Dialectic and Philanthropic Literary Societies of the University, where they may take part in or witness weekly debates of a high order, and train themselves in parliamentary law. They are further admitted to all privileges of a law library of 2600 volumes, to the University library of 50,000 volumes, to the University gymnasium, and the organizations of the University generally, literary, social, or athletic.

PRIZES

A prize of twenty-five dollars in gold is offered each year by Shepard Bryan, Esq., of the Atlanta Bar, in honor of his father, the Honorable Henry R. Bryan, of New Berne, N. C., to be awarded to the member of the Senior Law Class who shall submit the best thesis upon an approved legal subject.

FEES AND EXPENSES

Tuition for Fall and Spring terms, each.....$35.00.
Registration fee..... 12.50.

There are no scholarships in this School. Good board is furnished at Commons Hall for $10 a month and at the University Inn for $15 a month. In the village board may be secured for from $8 to $15, or, with rooms, from $10 to $20 a month.

The rent of unfurnished rooms in the dormitories ranges from seventy-five cents to $2.50 a month, for each occupant; and for each room a charge of one dollar a month is made for electric light and one dollar a month for heat.

THE SUMMER LAW SCHOOL

A session of the School of Law is maintained during each summer for the purpose of providing:

1st. A course for those who wish to begin the study of law.

2nd. A thorough review of the course prescribed by the Supreme Court of North Carolina for applicants for license.

3rd. An opportunity for instruction for men who cannot become resident students during the scholastic year.

4th. An opportunity for members of the Bar to review any branch of the law.

Session

The term for the summer of 1909 begins June 16 and ends August 27, three days prior to the examination before the Supreme Court for admission to the Bar of North Carolina.

Lectures and Recitations

At this session daily lectures and recitations of one hour and a half each, will be held by Professors MacRae and Ruffin. In addition there will be frequent quizzes. The two courses offered will cover the requirements for reading prescribed for admission to the Bar of North Carolina; and will include, by way of review, as much as possible of the regular work of the School of Law as taught during the scholastic year. Also, during the term, special lectures are expected to be delivered by prominent lawyers, later

to be announced. The instruction is conducted by means of text-books, lectures, leading cases, quizzes, and moot-court.

An outline of the work of the two courses includes:

1. Ewell's Essentials of the Law (embracing the law of Domestic Relations, Real Property, Personal Property, Crimes, Contracts, and Torts). Other text-books to be used are 1st Blackstone; 2nd Blackstone and Tiffany on Real Property; 3rd Blackstone and Code Pleading; 4th Blackstone; Clark on Contracts; Burdick on Torts; Creasy's English Constitution.
2. 1st Greenleaf on Evidence and N. C. Revisal Chapter on Evidence; Bispham on Equity; Clark on Corporations; Schouler on Executors, with N. C. Revisal chapters on Widows, Wills, Testaments, Descent, and Distribution; First volume of N. C. Revisal of 1905, with Clark's Code of Civil Procedure; Constitutions of the United States and North Carolina; Sharswood's Legal Ethics; 3rd Blackstone and Code Pleading; Cooley's Principles of Constitutional Law.

Examinations

No entrance examination is required; but each student must satisfy the faculty that he has sufficient general education to enable him to take the course with profit to himself. Examinations are required as each subject is completed, and at the end of the term certificates to that effect are issued to such students as have passed with credit all examinations in both courses.

Fees and Expenses

Tuition for term	$30.00
Registration and Incidental Fees	5.00

The above mentioned fees cover privileges of University Library, gymnasium, and baths.

There are no scholarships in this School. Board in the village, with room, will cost from $10 to $20 a month; without room, from $9 to $15.

For further information address President F. P. Venable, or Hon. James C. MacRae, Dean of the School of Law, Chapel Hill, N. C.

THE SCHOOL OF MEDICINE

Faculty at Chapel Hill

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., PRESIDENT.

ISAAC HALL MANNING, M.D., *Dean of the School at Chapel Hill and Professor of Physiology.*

CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Anatomy.*

WILLIAM DEBERNIERE MACNIDER, M.D., *Professor of Pharmacology and Bacteriology.*

DAVID HOUGH DOLLEY, A.M., M.D., *Professor of Histology and Pathology.*

HENRY VAN PETERS WILSON, PH.D., *Professor of Zoology.*

EDWARD VERNON HOWELL, A.B., PH.G., *Professor of Pharmacy.*

CHARLES HOLMES HERTY, PH.D., *Smith Professor of General and Industrial Chemistry.*

WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*

JAMES EDWARD LATTA, A.M., *Professor of Physics.*

ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*

JAMES EDWARD MILLS, PH.D., *Associate Professor of Physical Chemistry.*

ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*

ROBERT BAKER LAWSON, M.D., *Associate Professor of Anatomy.*

ROYALL OSCAR EUGENE DAVIS, PH. D., *Instructor in Chemistry.*

THOMAS JOSEPH MCMANIS, *Instructor in Physics.*

WILLIAM RUFUS EDMONDS, *Assistant in Physics.*

BENJAMIN WALTON JONES, *Assistant in Physics.*

VINCENT MELANCHTHON MONTSINGER, *Assistant in Physics.*

THOMAS CLEVELAND KERNS, A.B., *Assistant in Bacteriology.*

EUGENE CLARENCE JUDD, *Assistant in Anatomy.*

Robert Lee Payne, *Assistant in Anatomy.*
Charles Steward Flagler, *Assistant in Histology.*
William Picard Jacocks, A.M., *Assistant in Histology.*
Stroud Jordan, M.S., *Assistant in Chemistry.*
Duncan MacRae, *Assistant in Chemistry.*
William Mercer Oates, *Assistant in Chemistry.*
Wallace Headen Strowd, *Assistant in Chemistry.*
Cleveland Fane Kirkpatrick, *Assistant in Zoology.*
Elden Bayley, *Assistant in Botany.*
John Grover Beard, *Assistant in Pharmacy.*

Faculty at Raleigh

HUBERT ASHLEY ROYSTER, A.B., M.D., *Dean of the School at Raleigh and Professor of Gynecology.*

Wisconsin Illinois Royster, M.D., *Professor of Medicine.*
Augustus Washington Knox, M.D., *Professor of Surgery.*
Richard Henry Lewis, A.B., M.D., *Professor of Diseases of the Eye and of General Hygiene.*
Kemp Plummer Battle, Jr., A.B., M.D., *Professor of the Diseases of the Ear, Nose, and Throat.*
Henry McKee Tucker, M.D., *Professor of Obstetrics.*
Andrew Watson Goodwin, M.D., *Professor of the Diseases of the Skin and of the Genito-Urinary System.*
James McKee, M.D., *Clinical Professor of Mental and Nervous Diseases.*
James William McGee, Jr., M.D., *Professor of Diseases of Children.*
Robert Sherwood McGeachy, M.D., *Instructor in Therapeutics.*
William DeBerniere MacNider, M.D., *Instructor in Medical Diagnosis.*
Ralph Sanders Stevens, M.D., *Demonstrator of Clinical Pathology.*
William Moncure, Jr., M.D., *Instructor in Orthopaedic Surgery.*
Claude Oliver Abernethy, B.S., M.D., *Physician in Chief to the Dispensary and Demonstrator of Anaesthetics.*
Wade Hampton Braddy, *Assistant Demonstrator of Clinical Pathology.*

Foundation

Instruction in medicine is given in two distinct schools, one situated at the seat of the University, Chapel Hill, and the other in the city of Raleigh.

The school at Chapel Hill offers a preparatory or "premedical" course of one year in which special attention is given to the fundamental sciences of medicine—Chemistry, Physics, and Biology—and a course in those studies which compose the first two years of the medical curriculum. The school was re-established in 1890. In 1898 it was admitted to membership in the Association of American Medical Colleges; in 1901 it was incorporated as an integral part of the University on the same footing as the graduate and other professional schools.

Owing to the absence of clinical facilities at Chapel Hill, instruction in the third and fourth years of the medical curriculum is conducted by the school at Raleigh. This school was opened in the fall of 1902. It enjoys the hospital and other clinical advantages to be found in the city. Its course is limited to the third and fourth years.

Course Leading to the Degree of Doctor of Medicine

In order to be recommended for the degree of Doctor of Medicine (M.D.), the student must have completed with credit the course outlined below. Candidates must have devoted at least four full years to the study of medicine and the fourth year, at least, must have been spent in this school, the other three in this or other approved schools of medicine.

The Curriculum

PREPARATORY OR PREMEDICAL COURSE

English 1, 3 hours	Chemistry 1, 4 hours
German A, 3 "	Chemistry 3, 2 "
Physics A, 3 "	Zoology 1, 3 "

The medical course is arranged in four sessions of nine months each as follows:

FIRST YEAR

Chemistry: Quantitative Analysis. Six hours a week until February 1: total, 96 hours.

Biological Chemistry. Nine hours a week from February 1 to the end of the term: total, 135 hours.

Anatomy: Comparative Anatomy. Six hours a week until February 1: total, 96 hours.

Human Anatomy 1: Nine hours a week throughout the year: total, 280 hours.

Microscopic Anatomy: Ten hours a week until March 1: total, 184 hours.

Embryology: Eight hours a week from March 1 to the end of the term: total, 96 hours.

Pharmacognosy and Pharmacy: six hours a week from February 1 to the end of the term: total, 90 hours.

SECOND YEAR

Physiology. Five hours a week throughout the year: total, 180 hours.

Biological Chemistry. Six hours a week until February 1: total, 96 hours.

Experimental Physiology. Five hours a week from January 1 to March 15: total, 50 hours.

Anatomy 2. Nine hours a week until February 1: total, 126 hours.

Anatomy 3. Six hours a week until January 1: total, 78 hours.

Bacteriology. Eight hours a week until February 1: total, 128 hours.

Pathology. Twelve hours a week from February 1 to the end of the term: total, 180 hours.

Pharmacology and Materia Medica. Nine hours a week from February 1 to the end of the term: total, 130 hours.

Minor Surgery and Normal Physical Diagnosis. Four hours a week from February 1 to the end of the term: total, 60 hours.

SUMMARY OF FIRST AND SECOND YEARS

Subjects	Hours.
Chemistry	327
Anatomy	860
Physiology	230
Bacteriology	128
Pathology	180
Pharmacology	130
Pharmacy	90
Minor Surgery and Physical Diagnosis	60
Total	2005 hours.

THIRD YEAR

Medicine. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Surgery. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Obstetrics. Two lectures and one clinic hour a week for thirty weeks: total, 90 hours.

Physical Diagnosis. One lecture and three clinic hours a week for thirty weeks: total, 120 hours.

Hygiene. One lecture a week for thirty weeks: total, 30 hours.

Clinical Pathology. Two lectures and two clinic hours a week for thirty weeks: total, 120 hours.

Therapeutics. Three lectures a week for thirty weeks: total, 90 hours.

FOURTH YEAR

Medicine. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Surgery. Three lectures and six clinic and dispensary hours a week for thirty weeks: total, 270 hours.

Gynecology. One lecture and four clinic hours a week for thirty weeks: total, 150 hours.

Obstetrics: outdoor work. Total, 90 hours or more.

Pediatrics. Two lectures and one clinic hour a week for thirty weeks: total, 90 hours.

Clinical Pathology. One laboratory hour a week for thirty weeks: total, 30 hours.

Diseases of the Eye. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

Diseases of the Ear, Nose, and Throat. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

Diseases of the Skin and the Genito-Urinary System. One lecture and two clinic hours a week for thirty weeks: total, 90 hours.

Nervous and Mental Diseases. One lecture and one clinic hour a week for thirty weeks: total, 60 hours.

SUMMARY OF THIRD AND FOURTH YEARS

Subjects	Hours
Medicine, Therapeutics, and Pediatrics	720
Surgery	540
Gynecology and Obstetrics	330
Clinical Pathology and Physical Diagnosis	270
Diseases of Eye, Ear, Nose, and Throat	120
Hygiene	30
Nervous and Mental Diseases	60
Diseases of the Skin and Genito-Urinary System	90
Total	2160

THE SCHOOL AT CHAPEL HILL

ADMISSION

Candidates for admission and students already members of the School should present themselves to the President and Dean of the School for registration on *Monday*, *Tuesday*, or *Wednesday*, *September 6*, *7*, or *8*, *1909*, and *Monday* or *Tuesday*, *January 3* or *4*, *1910*.

ENTRANCE REQUIREMENTS

The requirements for admission to the premedical course are the same as for the College.

The requirements for admission into the Medical School are the satisfactory completion of one year in the University or certificates of its equivalent from an approved college. Students may be

admitted to the second year of the Medical course upon furnishing certificates of having completed the first year course in an approved Medical School, or upon passing an examination upon the subjects studied in the first year. An examination will not be allowed until the candidate furnishes a certificate of having attended eighty per cent. of the hours required in the first year at an approved Medical School.

EXPENSES

The following are the charges a term payable at the beginning of each term in September and January respectively:

Tuition	$35.00
Fee for matriculation (registration, library, infirmary, etc.)	12.50
Total	$47.50

In addition the following fees will be charged for laboratory courses a term:

Chemistry 9, $7.50; Chemistry 4A, $5.00; Chemistry 10, $5.50; Zoology 1, $3.00; Zoology 2, $5.00; Experimental Physiology and Pharmacology, $5.00; Pharmacy, $5.00; for the use of the microscope, 50c.

The laboratory fees are divided approximately equally among the four terms. The total charge in the first year is between $55.00 and $59.00 a term, in the second year between $57.50 and $58.50 a term.

Good board is furnished at Commons Hall for $10 a month and at the University Inn for $15 a month. The rent of unfurnished rooms in the dormitories ranges from seventy-five cents to $2.75 a month for each occupant. For each room a charge of $2.00 a month is made for electric light and heat.

PRIZES AND SCHOLARSHIPS

The Harris Prize. (Established in 1895). Mrs. Thomas W. Harris offers in honor of the late Dr. Thomas W. Harris, a pocket case of instruments to that student who shall make the best grade in anatomy.

The Wood Scholarship. (Established 1895). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her husband, the late Dr. Thomas Fanning Wood, a scholarship covering the tuition fees.

THE GENERAL PLAN OF INSTRUCTION

In the arrangement of courses, in the plan of instruction, and in equipment, the effort is made to follow modern educational ideals. The practice of Medicine has moved rapidly from the domain of empiricism to that of an exact science. The development of the microscope, the invention of instruments of precision, and the advances in clinical chemistry and pharmacology require the highest technical training and skill for their successful practical application. The current literature dealing with problems of Hygiene, Medicine, and Surgery are highly scientific and require a liberal scientific education for their application and unusual powers of analysis and judgment in the application of theories to practice.

From this has grown the necessity for extending the preliminary education and the medical curriculum, and modifying the methods of instruction. It is no longer profitable for the student with only an elementary education to pursue a medical course or to meet in competition the many more liberally educated physicians of the day. In recognition of this a preparatory or premedical course is offered in which the student begins his scientific training in the subjects of Chemistry, Physics, and Biology, which are the fundamental sciences of medicine. Having completed this course the student enters upon the study of medicine with a broader foundation and the scientific spirit developed.

In the arrangement of the courses of study in the Medical School the attempt is made to follow their natural sequence. In the first year the student devotes his time to anatomical and chemical studies: Gross Human and Comparative Anatomy, Microscopic Anatomy, Embryology, Biological Chemistry, and Pharmacy, a thorough knowledge of which is necessary to the proper appreciation of the subjects to follow. In the second year Physiology is begun and completed. Anatomy, Biological Chemistry, Toxicol-

ogy, and Bacteriology are completed in the first half of the year; Materia Medica, Pharmacology, Pathology, Normal Physical Diagnosis in the second half; so that at the expiration of the two years the student will have completed the fundamental branches of medicine, and be prepared to enter upon the study of the more practical subjects.

In the plan of instruction the laboratory method supplemented with a systematic course of lectures and demonstrations is pursued. The lectures and laboratory courses are, as far as possible, given contemporaneously, for in this way the student not only acquires technical skill, but, it is believed, will gain a more thorough grasp of the subject. When advisable the classes are divided into small sections, so that the work of each student is under the direct supervision and close observation of the instructor. Frequent oral and written quizzes and a final examination are given in each subject, the object of which is to exact systematic and continuous work. An attendance upon class of 80 per cent. and a grade of 80 in each subject is required.

The School is well equipped. It has an adequate corps of trained instructors devoting their entire time to teaching and investigating, and those directly in charge of all purely medical subjects are graduates of Medical Schools. A building containing ten rooms with a floor space of six thousand square feet and a recently erected Anatomical Laboratory have been set apart for its use. In the former the lecture rooms, the Bacteriological, Pathological, Histological, Physiological, and Pharmacological laboratories and the department library are located, all of which are well lighted and provided with modern conveniences and apparatus for the careful training of the student and the more advanced work of the instructor. The anatomical building is well equipped for dissection and the care of anatomical material. Instruction in Comparative Anatomy is given in Davie Hall and Chemistry in the chemical laboratory, both of which are described elsewhere. The University library, the gynasium, and the laboratories of all departments of the University are open to the medical students who are encouraged to avail themselves of the unusual opportunities for scientific training and literary culture.

Finally, the healthful climate of Chapel Hill, the simple life of its people, the free intercourse between student and teacher, an opportunity to share in athletics and to mingle with a large number of students pursuing other professions offer advantages which cannot be overvalued in the preparation for a professional life requiring not only technical skill, but an intimate and accurate knowledge of human nature, sympathy, and patience in the management of men.

COURSES OF INSTRUCTION

Chemistry

Professor Herty and Dr. Davis.

General Descriptive Chemistry (Chemistry 1). The elements are studied in a systematic manner. The laws governing their combination and the compounds resulting are considered with appropriate reference to their occurrence and relationships to medicine. The latter part of the course is taken up with organic chemistry. Texts: Holleman's *Analytical Chemistry;* Remsen's *Organic Chemistry*.

Associate Professor Mills.

Qualitative Analysis and Toxicology (Chemistry 9). Laboratory work with lectures. The behavior of the elements and their compounds is studied in the laboratory. Practice is given in the analysis of known and unknown mixtures. Text: Venable and Wheeler's *Qualitative Chemical Analysis* and the professor's notes.

Quantitative Analysis (Chemistry 4A). A brief course in gravimetric methods, followed by a more extended course in valemetric methods. Laboratory notes.

Professor Manning and Associate Professor Wheeler.

Biological Chemistry and Toxicolgy (Chemistry 10). This course is designed to give the student laboratory training in organic chemistry and its application to the study of physiological problems. Students will perform a series of

experiments bearing more or less directly on problems of metabolism, studying the proteins, carbohydrates, and fats, the digestive juices and their action, blood, urine, milk, and such tissues as will afford evidences of the general course of metabolic processes. They will prepare as many synthetical compounds illustrating the fundamental laws of organic chemistry as time will permit. The chemical behavior of poisons and their separation is studied in the laboratory. Each student will be required to keep a laboratory note-book. Lectures discussing the theories of physiological chemistry will be given contemporaneously with the laboratory course. Texts: Autenrieth; Haskins and McLeod; Simon.

Physics

Professor LATTA.

Elementary Physics (Physics A). The fundamental facts of Physics are studied with some special attention to heat and electricity. Text-books, lectures, and experiments. Text: Carhart and Chute.

Zoology

Professor WILSON.

General Zoology (Zoology 1): an introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Text: Thomson. Elective in the first year.

Comparative Anatomy of Vertebrates (Zoology 2, first half). Dissection of vertebrate types: ascidian, amphioxus, cyclostome, selachian, teleost, reptile, bird, mammal. Text: Thomson's Outlines of Zoology.

Botany

Professor COKER.

General Botany (Botany 1): an introduction to the structure and classification of plants; lectures with laboratory work. Elective in the first year.

Microscopic Anatomy

Professor Dolley, Messrs. Flagler and Jacocks.

This course is divided into three parts, as follows:

1. Histology. Stress is laid on the proper conception of the fundamental tissues, which are studied, first in section, and then in fresh or macerated preparations, apart from the consideration of organs.
2. Microscopic Anatomy of Organs (excepting the central nervous system). Sections from all organs are supplied in sufficient number to cover the finer details of structure. Fresh and preserved abattoir material is furnished along with the sections.

   Throughout the course, each student stains and mounts his own sections and is required to make specified drawings and descriptions. By means of prepared slides, loaned to each student, details requiring special technique are shown, such as elastin stains, silver nitrate impregnations, injections, etc. Including mounts of fresh tissues and blood smears, a minimum of 150 slides is prepared in the laboratory. Lectures supplement the laboratory work, but a considerable part of this time is devoted to oral and written recitations. The final examination is both written and practical, the latter consisting of two parts, the diagnosis and the written description of slides.
3. Microscopic Technique. This portion of the course is given out of schedule hours. Under supervision, each student using several methods of fixation and both celloidin and paraffin imbedding, carries 5 tissues from the raw state to the stained section, which must be approved by the instructor. Text: Bailey. Reference, Boehm-Davidoff.

Anatomy

Professor Mangum, Associate Professor Lawson, Messrs. Judd and Payne.

The method of instruction is one of dissection and demonstration supplemented by lectures. Each student is required to dis-

sect one-half of the body under the constant supervision of an instructor, who examines him daily upon the work done. Frequent practical examinations are held upon which stress is laid in order to enforce proper study of the cadaver.

1. In the First Year the lectures and demonstrations proceed by systems. The bones, the articulations, the descriptive anatomy and relations of the viscera are demonstrated to each student. During this year the student dissects one-fourth of the body.

2. In the Second Year the student finishes the dissection of the body and especial stress is laid upon topographical anatomy and the relations of anatomy to surgery. A final examination is held upon the entire subject of anatomy.

3. Neurology. Special laboratory study of the gross and microscopic anatomy of the cord and encephalon.

Text: Cunningham or Morris; Cunningham's Manual of Practical Anatomy; Whitehead's Anatomy of the Brain.

4. Vertebrate Embryology. The lectures embrace the phenomena of cell division, ovulation and impregnation, and the devolopment of the human body to the end of the foetal stage. In the laboratory the student verifies the facts by the study of organogeny in the chick and in the pig and the foetal membranes in mammals.

Texts: Heisler; Marshall; Minot's *Laboratory Text.*

Physiology

Professor MANNING.

This course consists of lectures and laboratory work. In the lectures a brief account of general and cell physiology is given as an introduction; then follows a detailed discussion of the facts and theories of human physiology with a brief account of such experiments on the lower animals and such clinical observations and experiments as bear upon the subjects. Contemporaneously with the lectures, a laboratory course is given in which the student learns the methods of experimental physiology and performs

such experiments as will demonstrate the more obvious facts. Texts: Howell; Stewart; Porter.

Materia Medica and Pharmacology

Professor MacNider.

In this course, consisting of lectures and laboratory work, the general appearance and composition of a carefully selected number of drugs, their preparation and doses, their physiological action and the indications for their rational usage, will be studied. Emphasis will be given to the pharmacopoeal standards. In the laboratory the student demonstrates the action of the more important drugs upon the lower animals. Texts: Wood; Sollmann.

Pathology

Professor Dolley assisted by Professor MacNider.

1. Pathological Histology. General pathological processes are first studied, followed by the special pathology of the different organs and systems. Each student receives and is required to stain, mount, and study about 250 sections, and to draw or describe those designated by the instructor. In addition, rarer lesions and those requiring special technique are shown by demonstration slides, and at frequent intervals tumors are given out for diagnosis. The list of sections illustrative of general pathology, particularly tumors, is made as complete as practicable, and in special pathology, cardiac and vascular diseases, typhoid fever, and the various forms of pneumonia, of cirrhosis of the liver, and of nephritis, are emphasized. The class is encouraged to study gross appearances in museum material in connection with sections. Oral and written recitations are held frequently. The examination is both written and practical. Texts: Delafield and Pruden; Stengel. Reference: American Text-Book.

Professor MacNider.

2. Bacteriology. The student learns by practical experience the methods of cultivating, staining, and identifying the

principal bacteria, the pathological significance of which is explained by lectures and demonstration by inoculation of animals. In this way the chief bacteria are learned. The necessary manipulations are all carried on by the student, who thus obtains a useful practical knowledge of the subject. Text: Muir and Ritchie.

Minor Surgery and Physical Diagnosis

Professor MacNider.

The class practices the application of bandages, learns the modern methods of dressing wounds. A short course in Physical Diagnosis is given. Text: Davis on Bandaging.

Pharmacy

Professor Howell.

The course in Pharmacy will consist in laboratory work supplemented by lectures. The student will have an opportunity to study the crude drugs and their official prescriptions and doses, and to familiarize himself with pharmaceutical methods in the preparation of official drugs, in writing and compounding prescriptions.

THE SCHOOL AT RALEIGH

LOCATION AND FACILITIES

The advantages afforded by the city of Raleigh for the advanced work of the University Medical School are numerous. It is the most accessible of the State's larger cities and has already become one of its educational centres. Comprising, with the suburbs, a population of 25,000, it offers clinical facilities second to none in North Carolina. Three hospitals admit students of medicine for instruction. These hospitals are attended by the Faculty of the Medical School and special care is given to individual teaching with the varied material found in them. Besides these hospitals,

there are available many public institutions which furnish valuable privileges to the students of the University.

ADMISSION

Students will be admitted to the Medical School at Raleigh upon completion of the preparatory two years' course at Chapel Hill, or its equivalent. Preliminary examinations will be held if deemed necessary.

Students may be admitted to advanced standing who present evidence of having fulfilled the requirements of this school with respect to preliminary education, and of having completed at accredited medical schools the courses required in the preceding years.

REGISTRATION

Students should present themselves to the Dean for registration on *Monday*, *Tuesday*, or *Wednesday*, *September*, *6*, *7*, or *8*, *1909* and on *Monday* or *Tuesday*, *January 3* or *4*, *1910*.

EXPENSES

The following are the charges a term, payable at the beginning of each term:

Tuition $37.50

At graduation a charge of $5.00 is made for the diploma. Board may be obtained in the city at prices ranging from $12.50 to $15.00 a month.

COURSES OF INSTRUCTION

Medicine

Professor W. I. Royster and Dr. MacNider.

This subject is taught by lectures, ward classes, and general clinics. Cases are assigned to students and examinations are held upon their work. History writing receives due attention.

In the third year are treated the infectious diseases, diseases of the blood and digestive system. Individual instruction is given in the methods of physical diagnosis.

In the fourth year are studied the diseases of the respiratory system, heart, and kidneys, and the general diseases. There are weekly clinics and ward classes.

Texts: Hare; Tyson.

Surgery

Professor KNOX and Dr. ABERNETHY.

In the third year are treated the principles of surgery, wounds, minor operations, and bandaging. Ward classes and dispensary work furnish ample demonstrations of the subjects described in the lectures.

The fourth year is devoted to the general practice of surgery and the major operations. A special course in anaesthetics is given to each student. At all the clinics students will be able, by personal observations at short range, to witness every step of an operation and thus familiarize themselves with the details. Text: Wyeth.

Obstetrics

Professor TUCKER.

This course is conducted by means of lectures, recitations, and clinics. Fundamental obstetric principles receive the closest attention. A number of maternity cases are available for instructing students in the management of labor and the lying-in period. Each student must have attended the prescribed number of labors before he is entitled to a diploma. Text: Hirst.

Gynecology

Professor H. A. ROYSTER.

Lectures are given covering the entire field of the diseases of women from the simplest procedure to the more serious operations. Illustrative clinics are held weekly. In many cases students are allowed to assist in the operations. Practice in pelvic examinations is given constantly to each stu-

dent, for the purpose of enabling him to make gynecological diagnoses. An abundance of material is always available. Text: Penrose.

Therapeutics

Dr. McGeachy.

The whole subject is thoroughly discussed by means of recitations and demonstrations, with constant drill on important drugs. Prescription writing. Text: Hare.

Diseases of the Eye

Professor Lewis.

This course is conducted by means of lectures with clinics and dispensary classes, and furnishes what is absolutely essential for the general practitioner. Mastery of the principles is insisted upon. An abundance of illustrative material is presented in clinics and dispensary classes. Text: May.

Diseases of the Ear, Nose, and Throat

Professor Battle.

This course consists of lectures and demonstrations with opportunities for investigating cases under direct supervision. A knowledge of these diseases is recognized as necessary for every physician. Particular care is devoted to personal demonstration. Text: Gleason.

Pediatrics

Professor McGee.

Lectures and bed-side demonstrations. Special emphasis is given to the diagnosis and treatment of the infectious diseases and to the care of infants. A large number of dispensary cases is seen. Text: Holt.

General Hygiene

Professor Lewis.

The principles and laws of hygiene and sanitation and the most approved practical methods established by modern science. A knowledge of hygiene and sanitation is very necessary for physicians in every community. Extraordi-

nary opportunities will be given for investigating the working of the State sanitary laws. Text: Egbert.

Nervous and Mental Diseases

Clinical Professor McKee.

Practical instruction is given in the principles of the subject from material furnished by one of the State's largest insane hospitals.

Diseases of the Skin and Genito-Urinary System

Professor Goodwin.

Instruction is given by means of lectures, recitations, and dispensary work. Attention to correct diagnosis is insisted upon. Modern methods are carefully studied. Texts: Walker on Skin; Keyes and Chetwood on Genito-Urinary.

Clinical Pathology

Dr. Stevens and Mr. Braddy.

Great stress is laid upon the association of laboratory technique with cases actually under observation. Examinations of blood, urine, sputum, pus, tumors, etc., are made by the student with the assistance of the demonstrators. The equipment is excellent. Text: Simon.

Orthopaedic Surgery

Dr. Moncure.

The chief aim in this course is to give a thorough knowledge of the basic principles which underlie this branch of surgery. Students are taught the application of the various bandages and apparatus, and are required to do much of the work themselves.

The City Free Dispensary

Dr. Abernethy, *Physician in Chief.*

By special arrangement, the city of Raleigh has allowed the establishment of a Free Dispensary, to which all the out-

door patients come, and when every available case is utilized as clinical material for students of medicine. Here will be found unusual privileges of personal observation. At certain times each student may conduct the dispensary work on his own account under the direction of the instructors. Senior students are graded on their work in the Dispensary.

SCHOOL OF PHARMACY

FACULTY

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., PRESIDENT.

EDWARD VERNON HOWELL, A.B., PH.G., *Dean and Professor of Pharmacy.*

HENRY VAN PETERS WILSON, PH.D., *Professor of Zoology.*

WILLIAM DEBERNIERE MACNIDER, M.D., *Professor of Pharmacology and Bacteriology.*

ISAAC HALL MANNING, M.D., *Professor of Physiology.*

CHARLES HOLMES HERTY, PH.D., *Smith Professor of General and Industrial Chemistry.*

ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*

JAMES EDWARD LATTA, A.M., *Professor of Physics.*

WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*

ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*

JAMES EDWARD MILLS, PH.D., *Associate Professor of Physical Chemistry.*

ROYALL OSCAR EUGENE DAVIS, PH.D., *Instructor in Chemistry.*

JOHN GROVER BEARD, *Assistant in Pharmacy.*

STROUD JORDAN, M.S., *Assistant in Chemistry.*

DUNCAN MACRAE, *Assistant in Chemistry.*

WILLIAM MERCER OATES, *Assistant in Chemistry.*

WALLACE HEADEN STROWD, *Assistant in Chemistry.*

CLEVELAND FANE KIRKPATRICK, *Assistant in Zoology.*

ELDEN BAYLEY, *Assistant in Botany.*

WILLIAM RUFUS EDMONDS, *Assistant in Physics.*

BENJAMIN WALTON JONES, *Assistant in Physics.*

VINCENT MELANCHTHON MONTSINGER, *Assistant in Physics.*

FOUNDATION

The School of Pharmacy was established in 1897 and was opened for students in September of that year. Its location at the seat of the University assures to its students the most modern scientific instruction with all the laboratory facilities of the undergraduate department, as well as the courses of instruction in allied branches. These opportunities will meet the requirements of a large number of students who were compelled heretofore to obtain their pharmaceutical education in other states. Briefly stated, the advantages are as follows:

1. Thorough, careful, *individual* training.
2. The practical experience derived from active work in the laboratories.
3. Intimate association with the other departments of the University, to all of which the student of pharmacy has access, and the daily contact with students pursuing various branches of learning.
4. The use of the large library and reading room and the well equipped gymnasium.
5. The comparatively small cost at which a two-years' course may be obtained.
6. The length of the course, which consists of two sessions of nine months each,—nearly a fourth longer than in many of the colleges of pharmacy.

The success of the students of this School in their examinations before State boards has been very gratifying. Students of this School have been applicants before the State boards of Maryland, Pennsylvania, and North Carolina. None of the graduates of this School applying for license before State boards has failed to pass the examination.

ADMISSION

Candidates for admission into the School of Pharmacy should present themselves on the same days and at the same hours with candidates for admission into the College. For the next academic year, these days will be *Monday*, *Tuesday*, or *Wednesday*, *September 6*, *7*, or *8*, *1909*, and *Monday* or *Tuesday*, *January 3* or *4*, *1910*.

The session of the School of Pharmacy is of the same length as the College year, beginning *September 6, 1909* and ending *June 1, 1910.*

Candidates for the degree of Ph.G. must be, on entering, at least 17 years old, and must have completed a high school course of study.

The members of the School of Pharmacy enjoy all the privileges extended to other students in the University.

EXPENSES

The charges for each term are payable at the beginning of the term. They are as follows:

Tuition	$30.00.
Registration and incidental fees	12.50.

There are additional fees as follows:

First Year

Chemistry 1 (each term)	$1.25
Physics A (each term)	.50

Second Year

Chemistry 9 (Fall term)	$ 7.50
Chemistry 10 (Spring term)	2.50
Prescription Course	10.00

The students of Pharmacy are entitled to the use of the gymnasium, the library and reading room, and, in case of sickness, to medical attention and the use of the infirmary.

Good board is furnished at Commons Hall for $10.00 a month and at the University Inn for $15.00 a month. The rent of unfurnished rooms ranges from 75 cents to $2.75 a month. For each room is made a charge of $2.00 a month for electric light and heating.

PRIZES

The Bradham Prize, offered by Mr. C. D. Bradham, of Newbern, N. C., will be given to the student making the highest general average during the two years of study.

The Gilpin Langdon Prize, offered by Messrs. Gilpin Langdon & Co., of Baltimore, Md., will be given to the student making the best line of preparations in the pharmaceutical laboratory.

Prizes will also be given:

1. For the best thesis.
2. For the best collection of native medicinal herbs.
3. For the best exhibit of chemical salts made by a second year student.
4. For the best work in the recognition of materia medica specimens.
5. To the student recognizing the largest number of pharmaceutical preparations.

EXAMINATIONS

Final examinations are held at the end of each term on the subjects embraced in the course.

Quizzes upon the different branches are held regularly. Specimen quizzes upon Materia Medica, Chemistry, and Pharmacy are held once a week, and consist in the recognition and correct writing of the official names of the specimens presented.

Students are required to make an average of 70 per cent. on all examinations and quizzes.

COURSE LEADING TO THE DEGREE OF GRADUATE OF PHARMACY

In order to be recommended for the degree of Graduate of Pharmacy (Ph.G.), the student must have completed with credit the course of study outlined below. This course extends over two sessions of nine months each. The student must have completed the work of both sessions in the School of Pharmacy of this University, or of one session (the second) here after one in some other recognized school of Pharmacy. He must obtain satisfactory marking in attendance, make a general average of 70 per cent. in the various branches, and submit a satisfactory thesis. The thesis must be an original essay embodying the results of the student's personal research in some branch of pharmacy, which he has prosecuted under the direction of the professor who assigned

him the subject. The subject of such thesis must be announced on or before February 1 to the Dean of the Faculty. On May 2 the thesis shall be read before the Dean of the School, subject to criticism and correction. The corrected and approved thesis must be handed to the Registrar in type-written form on or before May 15. It will be published at the discretion of the Dean of the School. He must also have had a practical experience of at least four years with some qualified pharmacist in a dispensing store. Satisfactory evidence on this point must be submitted to the Dean of the School, and a certificate deposited with the Registrar on or before May 15. Students who have not had the full four years' experience will be permitted to stand examinations for graduation; but their diplomas will be withheld until they shall have satisfied this requirement. Of the three years of experience required for license by the State Board of Pharmacy, the work done in the Pharmaceutical laboratory will count for one and only one.

First Year

Pharmacy 1 (5)*
Pharmacy 4 (4)
Elementary Physics A (2)
Chemistry 1 (3)

Second Year

Pharmacy 2 (5)
Pharmacy 5 (8)
Materia Medica (3)
Materia Medica and Pharmacology (5)
Chemistry 9 (3)
Chemistry 10 (3)

COURSES OF INSTRUCTION

Pharmacy

Professor HOWELL.

1. Theory and Practice of Pharmacy. The course consists of lectures upon the following subjects, with practical demonstrations and the employment of proper apparatus when-

ever necessary: metrology, comminution, heat, evaporation, distillation, sublimation; fusion, calcination, granulation, oxidation, reduction, etc.; solution of solids, liquids, and gases; deliquescence, efflorescence, etc.; colation, filtration, decolorization, clarification, precipitation, etc.; macration, expression, infusion, decoction, etc.; percolation, and study of the following: waters, syrups, honeys, glycerites, muscilages, mixtures, spirits, elixirs, liniments, collodions, tinctures, wines, vinegars, and fluid extracts. Text: Remington, *Theory and Practice of Pharmacy*. First year. *Both terms, five hours.*

2. Theory and Practice of Pharmacy. The official forms and preparations of drugs are taken up in detail. Beginning with the inorganic compounds, the salts are considered with regard to their commercial qualities and pharmaceutical uses and preparations. The organic compounds are studied, commencing with the salts of the organic acids and passing to the natural and organic compounds. Second year. *Both terms, five hours.*

3. Lectures on Pharmaceutical Botany. This course is preparatory to the study of Materia Medica, and takes up the study of the flower, the various topics of fruits, seeds, etc., and a careful study of the descriptive terms as applied to leaves, stems, and roots. Instruction is given in the gathering and proper mounting of specimens of the official herbs that grow in this vicinity. First year. *Spring term, two hours.*

4. Operative Pharmacy: a practical course with laboratory work. First year. *Both terms, four hours.*

5. Operative Pharmacy: a continuation of course 4. Second year. *Both terms, two hours.*

Materia Medica and Pharmacology

Professor Howell.

1. Materia Medica. Lectures on the geographical and botanical sources of drugs; descriptions and uses of the same,

together with their preparation and doses. Opportunity is given to the student to familiarize himself with most of the crude drugs and their preparations. Text: White and Wilcox. *Fall term, three hours.*

Professor MacNider.

2. Materia Medica and Pharmacology. This course is devoted to the study of the origin and constitution of remedial measures, their preparations and doses; and in particular, their physiological action and the indications for their rational use. Opportunity will be given to students to familiarize themselves with the more important crude drugs and their preparations. Instruction is given by means of lectures, recitations and demonstrations. The lectures intended to accompany the work in Toxicology are given as a part of the course in Materia Medica.

Physics

Professor Patterson

Elementary Physics (Physics A). The fundamental facts of Physics are studied with some special reference to heat and electricity. Text-book, lectures, and experiments. Text: Carhart and Chute. First Year. *Both terms, three hours.*

Chemistry

Professor Herty and Dr. Davis.

1. General Descriptive Chemistry. The elements are studied in a systematic manner. The laws governing their combination, and the compounds resulting, are considered with appropriate reference to their occurrence and relationships to medicine. The latter part of the course is taken up with organic chemistry. Texts: Holleman's *Inorganic Chemistry*, and Remsen's *Organic Chemistry*, supplemented by lectures and quizzes. First year. *Both terms: lectures, three hours; laboratory, two hours (fall term).*

Associate Professor Wheeler.

9. Qualitative Analysis and Toxicology: laboratory work with lectures. The behavior of the elements and their com-

pounds is studied in the laboratory. Practice is given in the analysis of known and unknown mixtures with especial reference to the detection of poisons and determination of the purity of drugs. Text: Venable and Wheeler's *Qualitative Chemical Analysis* and the instructor's notes. Second Year. *Spring term, three hours.*

OPTIONAL COURSES

The following courses are not required of students in Pharmacy, but may be elected profitably:

Elementary Physiology

Professor MacNider.

The study of physiology is begun in the spring term of the first year, during which the physiology of digestion, the digestive glands, blood, respiration, metabolism, excretion, and animal heat is considered in lectures illustrated by experiments. The study is continued in the fall term of the second year by the consideration of the physiology of the muscles and of the nervous system. During this term also the student learns the methods of experimental physiology by means of class work in the laboratory. Texts: *American Text-Book*, Stewart, or Kirke. *Both terms, three hours.*

Zoology

Professor Wilson.

General Zoology. An introductory course giving an outline of the classification and structure of animals, with consideration of the fundamentals of histology, embryology, and physiology, and some consideration of biological theories; lectures with laboratory work. Text: Thomson. *Both terms, three hours.*

Botany

Associate Professor Coker.

General introduction to Systematic Botany, with special attention to medical plants; laboratory and field work with recitations. *Spring term, three hours.*

Prescription Filling

Professor HOWELL.

In order that students may gain experience in prescription filling, a course in the practical everyday work of a drug store and in selling poisons and filling prescriptions is given. The prescriptions selected are those that will give the largest amount of practical experience. For this course a fee of ten dollars is required, to cover the cost of ingredients, bottles, labels, etc. *Both terms, at least two hours.*

Chemistry

Professor HERTY.

Industrial Chemistry. Lectures. The application of chemistry to the arts and industries. This course includes metallurgy, glass making, pottery, (*fall term*); food, clothing, building materials, explosives, photography, etc., (*spring term*). *Three hours.*

Agricultural Chemistry. Lectures. This course includes the chemistry of the plant and the soil, and the discussion of plant food, etc. Many specimens have been collected in the Industrial Museum to illustrate this course and the preceding one.

Dr. DAVIS.

Quantitative Analysis and Assaying. Laboratory work. This course is intended to give the student a thorough grounding in analytical methods and manipulations. *Three hours.*

Professor HERTY.

Quantitative Analysis. Laboratory work. The student in this course is led further into the study and practice of analytical methods. The work may take any special direction desired by him, fitting him to be an agricultural chemist, iron chemist, manufacturing chemist, physician, druggist, or teacher of chemistry. Encouragement is given to the student to make original researches. *Five hours.*

Mr. Eaton.

Determinative Mineralogy. Lectures with laboratory work. Dana's *Text-Book of Mineralogy*. *Both terms, two hours.*

Bacteriology

Professor MacNider.

The student learns by practical experience the methods of cultivating, staining, and identifying the principal bacteria, and their pathological significance is explained by lectures and demonstrations by inoculation of animals. In this way the chief pathogenic bacteria are studied in pure culture on the various media, after which the methods of obtaining pure culture from mixtures of bacteria are learned. The necessary manipulations are carried out by the students, who thus obtain a practical knowledge of the subject which can be gained in no other way. *Fall term, six hours.*

Students in Pharmacy have also the privilege of attending any of the regular academic courses.

THE PHARMACEUTICAL LABORATORY

OFFICERS

Edward Vernon Howell, A.B., Ph.G., Director and *Professor of Pharmacy.*

John Grover Beard, *Assistant in the Pharmaceutical Laboratory.*

The rooms of the Pharmaceutical Laboratory are admirably adapted to this purpose. They are conveniently situated on the first floor, are well lighted and well-equipped with water, electric lights, and gas. To each student is assigned a desk, provided with lock and key, and containing all the apparatus necessary for the every day work of the pharmacist. In the store room is kept a supply of materials for practical work, as well as the apparatus for the more complex operations. Ample space is provided for work at the prescription counter, where practical instruction in the compounding and dispensing of prescriptions is given.

A small deposit fee is required to cover the cost of breakage of apparatus. At the end of the session this fee will be returned, less the amount of breakage.

OTHER LABORATORIES

The laboratories of Physics, Chemistry, and Biology are open to students in Pharmacy. These laboratories are all equipped with the most approved apparatus for experimentation and illustration of lectures.

READING ROOM AND LIBRARY

The Pharmaceutical School is provided with a well selected library and with a reading room, inaugurated by the class of 1897, in which are filed a large number of medical and pharmaceutical journals.

In addition to these advantages, students of this department enjoy the privileges of the University reading room, in which are filed all the leading newspapers and magazines, and free access to the University Library, which numbers fifty thousand volumes and seventeen thousand pamphlets.

THE UNIVERSITY LIBRARY

OFFICERS

Eben Alexander, Ph.D., LL.D., *Supervisor.*
Charles Lee Raper, Ph.D., *Committeeman.*
Charles Alphonso Smith, Ph.D., LL.D., *Committeeman.*
Edward Kidder Graham, A.M., *Committeeman.*
Louis Round Wilson, Ph.D., *Librarian.*
Nan Spottswood Strudwick, *Assistant Librarian.*
Benjamin Earl Washburn, A.B., *Library Fellow.*
George Thaddeus Whitley, A.B., *Library Fellow.*
John Wesley Umstead, Jr., *Assistant in the Library.*
William Wilson Michaux, *Assistant in the Library.*

The University Library contained at the end of the calendar year 1908 fifty-one thousand one hundred and forty volumes and about seventeen thousand two hundred pamphlets. This collection has been largely re-classified and re-catalogued according to the Dewey, or decimal system, and its contents have been rendered easily accessible by means of a thorough dictionary card catalogue.

The Library funds are expended under the direction of the Librarian, the Library Committee, and Professors in charge of Departments, with special reference to the instruction given in the University. The annual addition of books from purchase, donations, and exchanges is about twenty-five hundred volumes, all of which are carefully classified and catalogued as they are received.

The Librarian and those assisting in the Library are in attendance to give help in any line of research or reading. A special collection of reference books is provided for general use in the reference room. At the Librarian's desk are kept complete indexes of the material to be found in the current or bound periodicals. The reading rooms for the students and members of the faculty are supplied with two hundred of the best American and foreign

periodicals and leading newspapers of the State and Nation. Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given new students at the beginning of the academic year. In addition to the general Library there are a number of departmental libraries which are open to all students who work in the departments and have need of special departmental books.

The Library is open on week days from 8:45 A. M. to 1:15 P. M., and from 2:00 P. M. to 5:00 P. M.; on week day evenings, Saturday excepted, from 7:30 P. M. to 9:00 P. M.; on Sunday from 2:30 P. M. to 4:30 P. M.; on University holidays from 3:00 P. M. to 4:00 P. M.

During the year the Library has received the hearty support of the Philanthropic and Dialectic Literary Societies, in recognition of whose long continued interest and generous aid the Library bears the official title, The Library of the University of North Carolina Endowed by the Dialectic and Philanthropic Literary Societies.

The following rules are considered necessary for the proper use of the Library. They will be enforced with strict impartiality.

Subscribers to the Library are the students and members of the faculty.

Other persons who desire to use Library may become subscribers on payment of the regular Library fee.

The Library fee is four dollars a year, two dollars a term, or fifty cents a month.

Persons who are not subscribers may not borrow books on a subscriber's name.

Not more than three books may be charged to one name at the same time.

Fines for books kept over fourteen days (including the day of issue) will be imposed with exact regularity at the rate of five cents per day. Books reserved for debate or for class use may be kept out from 4:00 P. M. until 10 A. M. of the following day. After that hour they are subject to a fine at the rate of five cents per hour. The date on the pocket on fly-leaf of book is sufficient notice when the book is due.

Failure to pay fines within three weeks from time they are due will debar the delinquent from further use of the Library.

Books from the reference room must remain in the Library during Library hours. They may be loaned only at the discretion of the Librarian.

Magazines must not be removed from the Library until they are bound.

Mutilation of books or magazines, or defacement by writing in them, must be paid for by the purchase of a new copy.

Any conversation in the Library, except to obtain books desired, is absolutely forbidden.

Continued disregard of any of these rules will cause the offender to forfeit the right to use the Library.

In addition to the gifts made to the University for Library purposes for which the University has made acknowledgement, the Library wishes to acknowledge the gifts of publications from F. Allaben, H. Altemus Company, American-Electro-Therapeutic Association, American Book Company, American Branch of the Association for International Conciliation, American Lumbermen, American Museum of Natural History, D. Appleton and Company, Atlanta Carnegie Library, A. F. Bill, Boston Public Library, R. B. Brinnan, Brotherhood of St. Andrew, J. D. Bruner, W. F. Bryan, A. L. Burt and Company, California State Library Commission, Canadian Government, Carnegie Foundation, Carnegie Institution, P. H. Churchman, Conference for Education in the South, F. R. Condert, Educational Publishing Company, J. T. Ellyson, A. Flannagan and Company, S. H. Goodnight, D. C. Heath and Company, Mrs. F. E. Hill, J. A. Holmes, Houghton, Mifflin, and Company, G. G. Hubbard Collection, L. Hübner, R. P. Hudson, Iowa State Historical Society, B. F. Johnson and Company, Kansas State Historical Society, J. H. Kennedy, W. W. Kitchin, S. N. Lafayette, Lake Mohonk Peace Conference, Lee and Shepard Company, Mrs. L. Z. Leiter, Library of Congress, Little, Brown, and Company, Longmans, Green and Company, Perry Moran and Company, Massachusetts State Board of Charities, Maynard, Merrill, and Company, Mrs. C. deR. Meares, R. L. Metcalf, J. E. Mills, National Arbitration and Peace Con-

gress, National Prison Association, New Jersey State Library, New York State Library, North Carolina State Government and Officers, Oxford University, J. B. Peaslee, Pennsylvania State Historical Society, J. H. Pratt, Public School Publishing Company, St. Nicholas Society, W. Salter, C. A. Schenck, Charles Scribner's Sons, J. B. Shaw, Sibner, Burdette, and Company, F. U. Spinner, M. M. Smith, Robert Strange, Emil Sutro, S. Thompson, United States Superintendent of Public Documents and other Federal Officers and Departments, Universal Peace Congress, University of Pennsylvania, University of Texas, University of Wisconsin, University Publishing Company, Bailey Willis, Wisconsin State Historical Society, D. H. Wright, Yackety Yack Board, Yale University, Advocate of Peace, Alumni Register, American Economist, Central Presbyterian, Charity and Children, Christian Advocate, Gospel Messenger, Greensboro Record, Hartford Seminary Record, Homiletic Review, Morganton News-Herald, Newton Enterprise, North Carolina Journal of Education, Presbyterian Standard, Progressive Farmer, Raleigh Christian Advocate, Sampson Democrat, Statesville Landmark, Tar Heel, University Magazine, Virginian-Pilot, Webster's Weekly.

THE JOHN CALVIN McNAIR LECTURES

The lecture fund established by the will of John Calvin McNair of the class of 1849 became available in 1906, and the interest therefrom rendered it possible to begin the lectures in 1908. The honorarium for the lectures amounts to $500, and the remainder of the interest from the fund provides for the suitable publication of the lectures. Under the will the object of the lectures "shall be to show the mutual bearing of science and religion upon each other and to prove the existence of attributes (as far as may be) of God from nature."

The lectures for 1908 were delivered by Professor Francis H. Smith, LL.D., of the University of Virginia. The three lectures were:

1. The general theme: God Manifest in the Material Universe.
2. His Attributes as Manifested in Physics.
3. His Attributes as Manifested in Astronomy.

The lectures for 1909 will be delivered by President Francis Landley Patton, D. D., LL.D., of Princeton Theological Seminary, New Jersey.

The lectures for 1910 will be delivered by President David Starr Jordan, Ph.D., M. D., LL.D., of Leland Stanford Jr. University, California.

THE WILLIAM PRESTON BYNUM, JR., GYMNASIUM

ROBERT BAKER LAWSON, M.D., *Director.*
CHARLES DIGBY WARDLAW, *Assistant.*

The William Preston Bynum, Jr., Gymnasium, the gift of Judge William Preston Bynum, in memory of his grandson, William Preston Bynum, Jr., of the class of 1893, is a handsome, two-storied brick building, furnished with modern apparatus, swimming pool, baths, lockers, and running track. It contains also the trophy room and the office of the Instructor in Physical Training.

Exercise in the Gymnasium is required three hours a week of all the students in College except Seniors. A thorough physical examination of each student is made in the fall, and, in case students desire it, another in the spring. The measurements are indicated in a Prescription of Exercise pamphlet and are furnished to the students free of charge in the fall term. This book contains directions for the developing of every part of the body, as well as suggestions on hygiene and personal care of the body; it is free from technicalities and confusing terms. Too much importance cannot be attached to the physical examination, since it enables the student to work intelligently and to economize his time. The physical examination is designed to aid the student by pointing out defects, and causing him to direct his efforts toward the correction of them.

LABORATORIES AND MUSEUMS

THE PHYSICAL LABORATORIES

Andrew Henry Patterson, A.M., Director and *Professor of Physics.*
James Edward Latta, A.M., *Professor of Electrical Engineering.*
Thomas Joseph McManis, *Instructor in Physics.*
Benjamin Walton Jones, *Assistant in Physics.*
Vincent Melanchthon Montsinger, *Assistant in Physics.*
William Rufus Edmonds, *Assistant in Physics.*

The Physical Laboratory occupies the eastern half of the main floor and almost the whole of the basement floor of the Alumni Building, amounting to about seven thousand square feet of floor space.

The main floor is divided into two lecture rooms, an apparatus room, laboratory for students in the general course, Physics 1, and a laboratory for X-ray and photometric work.

In the rooms of the basement are located the dynamos, motors, electrical laboratory, electric furnace, storage battery, and the workshop for wood and metal.

A special appropriation granted by the Legislature in 1903 has made it possible to equip the Physical Laboratory with standard types of electrical machines: dynamos, motors, transformers, meters, switchboard, storage battery, electric furnace, and the accessories, needed for practical instruction in electrical engineering. The facilities for the general teaching of Physics experimentally have likewise been increased.

The electric light and central heating plants constitute valuable adjuncts to the laboratory.

CHEMISTRY HALL

CHARLES HOLMES HERTY, PH.D., *Smith Professor of General and Industrial Chemistry.*

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., *Professor of Theoretical Chemistry.*

ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*

JAMES EDWARD MILLS, PH.D., *Associate Professor of Physical Chemistry.*

ROYALL OSCAR EUGENE DAVIS, PH.D., *Instructor in Chemistry.*

EUGENE JOSEPH NEWELL, *Fellow in Chemistry.*

LAWRENCE GEDDING SOUTHARD, S.B., *Fellow in Chemistry.*

STROUD JORDAN, M.S., *Assistant in Chemistry.*

DUNCAN MACRAE, *Assistant in Chemistry.*

WILLIAM MERCER OATES, *Assistant in Chemistry.*

WALLACE HEADEN STROWD, *Assistant in Chemistry.*

The overcrowded condition of the laboratories and lecture room in Person Hall and the unsatisfactory ventilation of the laboratories made urgent the need for a larger and better arranged building for the Department of Chemistry. These facts, together with complete plans for a new building, were laid before the Legislature in 1905 and an appropriation of $50,000 asked. The appropriation was voted, and in a short while the work of construction was under way.

The new building, Chemistry Hall, is located east of Alumni Hall and north of the New East building, facing west. By the selection of this location good water pressure is assured for all of the laboratories in the building.

The outer walls are of salt and pepper pressed brick laid with black mortar.

The main building, 120 x 68 x 48, comprises a first floor, a second floor, and a commodious basement. Adjoining this main building and to the rear of the centre is the lecture room, 41 x 62 x 22.

To the right on entering the main building are the office and the private laboratory of the Director, the department library,

and a small lecture room; to the left are the office and private laboratory of the Associate Professor of Organic Chemistry, a large laboratory for organic chemistry, containing locker desks for twenty-four students, and a combustion room.

On the rear or east side of the first floor are the laboratories for quantitative analysis (thirty-two desks), and adjacent fume room, advanced quantitative analysis (twenty-four desks), and technical chemistry (six desks). At each end of the corridor are balance rooms.

On the second floor are the laboratories for general chemistry (sixty-six desks), qualitative analysis (sixty desks), physical chemistry (eight desks), electro-chemistry (eight desks), a research laboratory (sixteen desks), a laboratory for physiological chemistry (forty-eight desks), a fume room, and a small lecture room. At the ends of the corridor on the second floor are a balance room, preparation room, and a dark room for spectroscopic work.

In the basement are the assay laboratory, rooms for gas machine, electric furnace, technical chemistry, constant temperature, a photographic dark room, laboratory and museum for chemical mineralogy, a carpenter shop, store room for heavy chemicals, and a large stock room for chemicals and apparatus. From this stock room material is supplied to each floor of the building by an elevator.

Each laboratory is furnished with ample fume closets for the removal of noxious gases, while pivoted window sash insure proper ventilation of the rooms.

The entire building is heated by hot water from the central system of the University.

The main entrance hall leads direct to the lecture room, which is well lighted by high arched windows and has a seating capacity of two hundred, which can be increased somewhat as need requires. To the rear of the lecture room are a preparation room and a museum for specimens of typical chemicals, minerals, and products illustrating the various phases of chemical industries. Above these two last rooms is a small room for filing charts, diagrams, etc., used in illustrating lectures.

THE BIOLOGICAL LABORATORY

HENRY VAN PETERS WILSON, PH.D., *Director and Professor of Zoology.*
WILLIAM CHAMBERS COKER, PH.D., *Professor of Botany.*
CLEVELAND FANE KIRKPATRICK, *Assistant in Zoology.*
ELDEN BAYLEY, *Assistant in Botany.*

The Biological Laboratory, which bears the name of Davie Hall, is occupied by the Departments of Zoology and Botany. The building is a rectangular structure of pepper and salt brick and is divided into a main body and two wings. The total length is 125 feet, the depth of the main body 44 feet, that of the wings 38 feet. A basement underlies the whole, above which are two floors. The main body has an additional third floor which extends out over the wings forming spacious air chambers. The building faces north and south, lies to the east of the New East, and adjoins the Arboretum.

The entrance hall on the first floor, lit with large windows on either side of the main doorway, serves for the exhibition of museum specimens of a more popular character. Back of the entrance hall are herbarium, a room for charts and other lecture apparatus, and a room for the storage of zoological collections. The east wing of this floor is occupied by a lecture room with a seating capacity of one hundred and twenty, the west wing by a laboratory for the elementary classes in zoology and botany. The latter laboratory is arranged for twenty-four wall tables with window in front of each table.

On the second floor the east wing is occupied by a single large laboratory for advanced work in zoology and the west wing by a similar laboratory for advanced work in botany. Each of these rooms accomodates twenty workers and is lit on three sides with twenty windows. The main building on this floor includes private work rooms for the professors of zoology and botany, two store rooms, and a library. On the third floor of the main body is a photographic studio with windows on the north side extending to the floor, and with sky-lights. The building is provided with electric lights and is heated with hot water. The furnace

and fuel rooms are in the basement. Here also are fire proof incubator room, a room for micro-photography with adjoining dark room, janitor's shop, and rooms for the storage of heavy supplies. The wings in the basement are designed for the keeping of live animals and plants and for experimental work in botany and zoology. An elevator connects the basement with all floors.

THE GEOLOGICAL LABORATORY AND MUSEUM

Collier Cobb, A.M., Director and *Professor of Geology and Mineralogy.*

Joseph Hyde Pratt, Ph.D., *State Geologist and Professor of Economic Geology.*

Harry Nelson Eaton, A.M., *Instructor in Geology.*

William Henry Fry, *Assistant in Geology.*

The Geological Laboratory occupies the first floor of the New East Building. In addition to a lecture room with a seating capacity of about ninety, there is a large laboratory supplied with working collections of minerals, rocks, and fossils, and with photographs, maps, and models illustrating geological structure. The laboratory is furnished with two petrographical microscopes, with microscopes for soil study, and with apparatus for the slicing and polishing of rocks. Microscope slides have been made of most of the specimens from North Carolina; and the department has, also, sections of the typical European rocks. Sections of the rocks around Chapel Hill, and the igneous rocks of the Boston Basin made by the late Hunter Lee Harris, of the class of 1889, were given to the geological department. There is a room for photographic work.

The University possesses a collection of more than two thousand specimens of building stones, coals, and various products illustrating the economic geology of the State. These are arranged in an exhibition room of six hundred and fifty square feet of floor space. Here also are kept the sections taken with a diamond drill in the coal regions of Pennsylvania, in the region around King's Mountain, where the Summer School of Geology held its sessions, in the Dan River coal fields, and in the Triassic Rocks at Durham, N. C.

A complete set of the ores of the precious metals found along the line of the Atchison, Topeka, and Santa Fe Railroad is included in the collection. Valuable additions have been made to the collections of fossils also, affording increased opportunity for laboratory work in historical geology and palaeontology. A small collection of tertiary type fossils from Florida, the gift of Mr. Joseph Willcox of Philadelphia, is the most recent addition to the palaeontological collection. The collection illustrating economic geology has been largely increased.

The department library, which occupies a room adjoining the exhibition room, is supplied with State and United States Reports, the papers of working geologists, the best works upon Geology, and scientific periodicals.

THE UNIVERSITY ORGANIZATIONS

THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES

The Dialectic and Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University, and they have shown remarkable power in developing character as well as in training the intellect. They offer facilities for practice in debate, oratory, declamation, and essay writing; and their members become practically familiar with parliamentary law and usage.

Each society owns a large, handsomely furnished hall, the walls of which are hung with oil portraits of illustrious members. Meetings are held by each society every Saturday evening during the college year, admission being confined to members. Public contests in debate between the two societies are conducted twice a year, and, in addition to these, there is a system of intercollegiate debates. On Monday evening before Commencement the Inter-Society Banquet is held, after which each society has its annual reunion. On Monday evening preceding Commencement day four representatives elected from the two societies have a public competition in debate, and a prize is awarded to the successful competitors.

By immemorial custom, students from the eastern half of the State usually join the Philanthropic Society, while those from the western half join the Dialectic Society. Although membership in the Societies is entirely optional, yet it is earnestly recommended by the Faculty as furnishing unusual opportunities not only for literary culture, but also for the development of self-control and the power to persuade and control others.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY

ARCHIBALD HENDERSON, PH.D., *President.*
ANDREW HENRY PATTERSON, A.M., *Vice-President.*
FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., *Permanent Secretary and Treasurer.*
ALVIN SAWYER WHEELER, PH.D., *Recording Secretary.*

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A Journal, which is the official organ of the North Carolina Academy of Science, is issued quarterly. The object of the Society is to encourage scientific research and to record such matters as pertain to the natural history of the State. The membership is at present restricted to the Faculty and students of the University, and members of the staff of the Geological Survey.

At the monthly meetings, which are ordinarily held on the second Tuesday of each month, excellent opportunities are afforded the students to get beyond the ordinary routine of the class room by hearing, reading, and discussing papers on scientific subjects.

The Journal is in a measure a bulletin of the scientific laboratories of the University, and contains many articles written by research students. It is now in the twenty-fourth year. The volumes already issued contain twenty-three hundred pages. By the exchange of the Journal with more than three hundred scientific journals and periodicals, over ten thousand books and pamphlets have been collected, all of which are arranged in the University Library.

THE NORTH CAROLINA HISTORICAL SOCIETY

CHARLES LEE RAPER, PH.D., *President.*
KEMP PLUMMER BATTLE, LL.D., *Vice-President.*
JOSEPH GREGOIRE DE ROULHAC HAMILTON, PH.D., *Permanent Secretary.*
THOMAS WYATT DICKSON, A.B., *Recording Secretary.*

The North Carolina Historical Society was founded in 1833 by Governor David L. Swain. When Governor Swain became president of the University, the Society was moved from Raleigh to Chapel Hill. Under his leadership it became the centre of histor-

ical work in the State and the medium of many notable contributions to the history of the State. On March 22, 1875, through the activity of Kemp Plummer Battle, LL.D., the Society was chartered by an act of the General Assembly. The purpose of the Society is to collect, classify, and publish material illustrative of the history of the State. The Society possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins, and other subjects of historic interest. The educational aim of the Society is to create a love for historical study and to give training in scientific methods of historical investigation. To this end meetings are held monthly in the History lecture room, at which papers, based on original research, are read and discussed. All members of the University are eligible to membership.

THE PHILOLOGICAL CLUB

Palmer Cobb, Ph.D., *President.*
Harvey Hatcher Hughes, A.B., *Vice-President.*
Orestes Pearl Rhyne, A.B., *Secretary.*
Louis Round Wilson, Ph.D., *Permanent Secretary and Treasurer.*

The Philological Club meets on the first Tuesday evening of each month during the college year. Its membership consists of the instructors and advanced students in the language departments of the University. The object of the Club is to stimulate original investigation in philology and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed. All persons interested in the work of the Club are invited to attend its meetings.

THE ECONOMICS SOCIETY

Charles Lee Raper. Ph.D., *President.*
Henry Plant Osborne, *Secretary.*

The Economics Society, to which any advanced student of Economics and Finance may belong, meets monthly for the discussion of Southern industrial problems.

No other section of the United States has so many important interesting economic problems to solve as the Southern States

at the present time. The Economics Society was organized under the conviction that the intelligent Southern man is the one upon whom the solution of these problems rests.

THE MODERN LITERATURE CLUB

James Dowden Bruner, Ph.D., *President.*
Jeremiah Bascom Reeves, *Vice-President.*
Frank Porter Graham, *Secretary and Treasurer.*

In December, 1904, the Modern Literature Club was formed. It is composed of members of the Faculty and student body who are interested in modern literary movements, and who signify their willingness to read original papers at the monthly meetings of the club. This organization fills a niche in University life and has already vindicated the wisdom of its founders.

ODD NUMBER CLUB

Edward Kidder Graham, A.M., *President.*
Jeremiah Bascom Reeves, *Vice-President.*
Thomas Palmer Nash, Jr., *Secretary and Treasurer.*

The Odd Number Club was organized in the fall of 1905. It is composed of students actively engaged in creative literary work. Its object is to stimulate this class of work among the students. Meetings are held monthly, and original essays, poems, sketches, and stories are read by the members.

This club has recently become a member of an organization composed of similar clubs in several of the large colleges and universities throughout the South.

DER DEUTSCHE VEREIN

Walter Dallam Toy, M.A., *President.*
Palmer Cobb, Ph.D., *Vice-President.*
Orestes Pearl Rhyne, A.B., *Secretary and Treasurer.*

The Verein was organized with the view of stimulating interest among the officers and students of the University in all topics pertaining to German life. Weekly meetings are held throughout the year at which the German language only is employed. Sub-

jects of general interest pertaining to German literature, history, art, and politics are discussed. An effort is made also to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language. It is part of the purpose of the Verein to arrange from time to time for public lectures in German. All officers and students of the University interested in the study of German are eligible to membership.

LE CERCLE FRANCAIS

Luther Wood Parker, *President.*
Sterling Ruffin Carrington, *Vice-President.*
Adolphe Vermont, *Secretary.*

Le Cercle Francais holds weekly meetings at which topics of general interest pertaining to French literature, and French life, manners, and customs are discussed. The French language is employed exclusively. This year the members of the club will present Moliere's play, *Le Medecin Malgre Lui.* It is the aim of the club to stimulate interest in the French language, to provide its members with an opportunity to hear idiomatic French spoken, and to use the language with more facility. All officers and students of the University interested in the study of French are eligible to membership.

TERTULIA ESPANOLA

Thomas Duncan Rose, *President.*
Norman Vaughn Stockton, *Vice-President.*
Donald Fairfax Ray, *Secretary and Treasurer.*

This club meets weekly and its aims are to provide the same opportunity for students of Spanish as Le Cercle Francais does for those interested in French.

MUSICAL ASSOCIATION

Charles Alexander Vogler, *President.*
James Gordon Hanes, *Business Manager.*
Charles Thomas Woollen, *Conductor.*

The aim of the Association is to foster the love of music and to afford opportunity of instruction to those interested in music. The

organization consists of an orchestra, a brass band, and a glee club, which are representative of the musical talent of the University.

THE UNIVERSITY COUNCIL

F. P. Graham, *President*, President of the Senior Class.
T. P. Nash, President of the Junior Class.
C. W. Gunter, *Secretary*, President of the Sophomore Class.
B. E. Washburn, President of the Second Year Medical Class.
J. G. Beard, President of the Second Year Pharmacy Class.
W. P. Stacy, Representative from the Law Class.
F. E. Winslow, (elected by Council) Representative from the Senior Class.

The University Council is the head of the honor system. It is the concrete expression of the moral University, the student instrument of self-government. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines into the matter, finds the facts in the case, and decides upon the justice of that feeling. If the student is found guilty of conduct unworthy of a University man, he is requested by the Council to leave the University. For example, if it becomes known among the students that a man has been guilty of cheating upon examination he is disgraced in the eyes of the University community; and the students without hesitation through their organ of expression, the Council, demand that he forthwith leave the University. The student sentiment expresses itself in this way not only in cases of so flagrant a violation of the honor system as cheating but also in cases of continued drunkenness, gambling, and such other forms of misconduct. Thus it can be seen that the student body has an effective system of self-government, that the motive power of this self-government is student sentiment, and that the organ of expression of this sentiment is the University Council.

YOUNG MEN'S CHRISTIAN ASSOCIATION

William Hoke Ramsaur, *President.*
John Heck Boushall, *Vice-President.*
Lewis Nathaniel Taylor, *Recording Secretary.*
Joseph Henry Johnston, *Treasurer.*

The University Young Men's Christian Association, with its centrally located House as a meeting place and home for the students; with its work for new students; with its social receptions; with its handbook, directory, and calendar published; with its lyceum course; with its eight Sunday schools supported; with its semi-weekly religious meetings; with its ministerial and missionary clubs; with its 260 members; with its 125 men enrolled in mission study; with its 350 men enrolled in Bible study; the Young Men's Christian Association through these channels is an organized agency for usefulness and an aggressive force for morality in the University life.

However, "the Young Men's Christian Association may not be viewed," says a member of the faculty, "merely as an institution for the conduct of mission work, Bible study, and religious meetings. Besides these excellent works which it shares with the churches, it is unique as a democratic student organization wholly given up to solving problems of right living. Its energy, sanity, and devotion have made it the most prominent and efficient organization in the college and the most beneficent influence in the life of the college community."

Bible Courses

1. Studies in the Life of Christ. (Bosworth).
   Leaders: F. P. Graham, W. H. Ramsaur, W. P. Belk, J. H. Boushall (Pi Kappa Alpha Group), A. L. Feild, J. A. Highsmith, W. P. Jacocks (Kappa Alpha Group), S. E. Leonard, Duncan MacRae (Alpha Tau Omega Group), J. L. Morehead (Zeta Psi Group), N. V. Stockton (Beta Theta Pi Group), Cyrus Thompson, Jr., W. M. Gaddy (Football Group), L. F. Turlington, B. E. Washburn (Medical Students' Group), F. E. Winslow (Sigma Nu Group), John Tillett.

2. Teachings of Jesus and His Apostles. (Bosworth).
   Leaders: J. M. Costner, B. H. Lewis, R. G. Rankin (Phi Delta Theta Group), C. W. Tillett, Jr. (Sigma Alpha Epsilon Group), E. W. Turlington.
3. The Work and Teachings of the Earlier Prophets. (Kent-Smith).
   Leaders: H. K. Clonts, W. P. Grier, R. T. Webb.
4. Old Testament Characters. (White).
   Leaders: T. J. Armstrong, Robert Drane (Delta Kappa Epsilon Group), O. W. Hyman, M. J. Jones, H. S. Kirkpatrick, J. R. Nixon, J. M. Reeves, K. D. Battle, J. T. Johnston, E. C. Byerly.

Mission Courses

Religions of Mission Fields, led by Rev. R. W. Hogue.

The Challenge of the City, led by J. B. Hubbell.

Missionary Biography, led by E. E. Barnett.
(1) Effective Workers in Needy Fields.
(2) Modern Heroes of Missionary Byways.

ONE HUNDRED AND THIRTEENTH COMMENCEMENT

(1908)

SUNDAY, MAY 31

BACCALAUREATE SERMON

The Right Reverend Thomas F. Gailor, D.D.

SERMON BEFORE THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Reverend Egbert Watson Smith, D.D.

MONDAY, JUNE 1

ALUMNI EXERCISES

Reunions of the classes 1858, 1859, 1860, 1861, 1883, 1898.

THE DEBATE BY REPRESENTATIVES FROM THE DIALECTIC AND PHILANTHROPIC LITERARY SOCIETIES

Dialectic.	*Philanthropic.*
Oliver Cromwell Cox,	William Monroe Gaddy,
Milo J. Jones,	John Wesley Umstead, Jr.

TUESDAY, JUNE 2, COMMENCEMENT DAY

SENIOR SPEAKERS

Patrick Murphy Williams, Thomas Levy Simmons,
Walter Parker Stacy.

THE COMMENCEMENT ADDRESS

The Hon. Martin Augustine Knapp, LL.D.

DEGREES IN COURSE

Bachelors of Arts

Thomas Wingate Andrews,
Benjamin Leonidas Banks, Jr.,
Robert Rufus Bridgers,
Wade Hampton Britt,
Edgar Whitson Scherer Cobb,
Julian Baxter Coghill,
Hubert Bascomb Connor,
William Chambers Coughenour,
Julia Mangum Dameron,
William Barham Davis,
Theophilus Randolph Eagles, Jr.,
Fred Elliott,
James Albert Fore, Jr.,
George Marion Fountain,
James Alexander Gray, Jr.,
Herbert Brown Gunter,
John Lindsay Hathcock,
Frederick Byron Hendricks,
John William Hester,
Thomas McEntyre Hines,
Louis Lyndon Hobbs,
Frederick Lafayette Huffman,
John Quincy Jackson,
Simon Rae Logan,
Howard Hoffman McKeown,
Luther Preston Matthews,
Basil Gantt Muse,
David Zero Newton,
Manlius Orr,
John Brame Palmer,
James Melville Porter,
Oscar Ripley Rand, Jr.,
Eldred Oscar Randolph,
Orestes Pearl Rhyne,
Marmaduke Robins,
Ernest Cofield Ruffin,
Beverly Oscar Shannon,
Thomas Levy Simmons,
Snowden Singletary, Jr.,
Jeannie Whewell Speas,
Walter Parker Stacy,
Edward Latham Stewart,
Frederick Isler Sutton,
Walter Williams Umstead,
Barnard Bee Vinson,
George Thaddeus Whitley,
Marion Murphy Williams,
Patrick Murphy Williams,
William Coleman Woodard, Jr.,
Martin LeRoy Wright,
Wortham Wyatt,
William Elmer Yelverton.

Bachelors of Philosophy

Zeno Hardy Rose,
Samuel Turner Stancell.

Bachelors of Science

Otis Oscar Cole,
Lloyd McCreight Ross,
Drury McNeill Phillips.

Bachelors of Laws

Frank Lemuel Dunlap,
Henry Yeatman Heyer,
John Johnston Parker.

Graduates in Pharmacy

Lawrence Harris Chewning,
Wiltshire Griffith,
Robert Roscoe Herring,
William Jacob Hicks,
Robert Milton McArthur,
Charles Remy Palmer,
Henry Lennon Pope,
Charles Leon Ross,
James Benbow Whittington.

Masters of Arts

William Frank Bryan,
Frank Morton Hawley,
Leonard Ross Hoffman,
Luther Wood Parker,
Percy Hoke Royster.

Masters of Science

Risden Tyler Allen,
Hubert Hill,
William Tillman McGowan,
Lawrence Gedding Southard.

*Doctors of Medicine

James Marion Buckner,
William Willis Green, Jr.,
David Watson Harris,
Evander McNair McIver,
Robert Gray MacPherson,
Julian Decatur Maynard,
George Monroe Monk,
Austin Flint Nichols,
Everett Joseph Stewart Scofield,
Albert Johnson Terrell,
John Blois Watson,
Samplett Edgar Webb.

HONORARY DEGREES

Doctors of Laws

Judge Henry Groves Connor,
Judge Platt Dickinson Walker,
President Louis Lyndon Hobbs,
Superintendent James Yadkin Joyner.

Doctors of Divinity

Reverend St. Clair Hester,
Reverend Neill McKay Watson.

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*Conferred May 21, 1908, at the closing exercises of the School of Medicine.

MEDALS, PRIZES, AND FELLOWSHIPS

The Holt Medal: J. M. Costner.
The Harris Prize: A. B. Holmes.
The Greek Prize: R. A. Urquhart.
The Worth Prize: L. P. Matthews.
The Early English Text Society Prize: Anna H. Lewis.
The Hunter Lee Harris Medal: S. R. Logan.
The Bradham Prize: R. R. Herring.
The Henry R. Bryan Prize: J. J. Parker.
The Toch Fellowship in Chemistry: L. G. Southard.
The Sutherland Fellowship in Chemistry: E. J. Newell.
The W. J. Bryan Prize: J. W. Hester.
The Bingnam Prize: J. W. Umstead, Jr.
The Mangum Medal: W. P. Stacy.
Elected to membership in the *Phi Beta Kappa Society*, 1908: F. E. Winslow, F. P. Graham, K. D. Battle, J. M. Costner, W. L. Long, D. D. Oliver, H. P. Osborne, C. W. Tillett, Jr.

CERTIFICATES

French: T. W. Andrews, W. C. Coughenour, H. B. Gunter, W. E. Yelverton.
German: W. B. Davis, S. R. Logan, J. W. Speas.
Greek: W. B. Davis.
Latin: W. B. Davis, O. R. Rand, J. W. Speas, B. B. Vinson, G. T. Whitley.
Pedagogy: E. W. S. Cobb, Z. H. Rose, B. E. Washburn, G. T. Whitley.

STUDENTS (1908-1909)

Graduates

NAME — YEAR — RESIDENCE

Clarke, David Leonidas, *First*, Commerce, Tex.
A.B., 1906, East Texas Normal College. English, Pedagogy, Economics. Candidate for A.M.

Coulter, William Summey, *First*, Newton.
A.B., 1908, Catawba College. English, Latin, Economics. Candidate for A.M.

Day, Roby Council, *Second*, Wilson.
A.B., 1907. History, English, Philosophy. Candidate for A.M.

Dickson, Thomas Wyatt, *First*, Raeford.
A.B., 1907. Economics, Greek, History. Candidate for A.M.

Dickson, William Samuel, *Second*, Chapel Hill.
A.B., 1907. Chemistry, Geology. Candidate for S.M.

Faires, Rosabelle Simonton, *Fourth*, Chapel Hill.
A.B., 1882, Simonton Female Academy. English, History. Candidate for A.M.

Grainger, James Moses, *First*, Chapel Hill.
A.B., 1905, University of Cincinnati; A.M., 1906, University of North Carolina. English.

Gresham, LeRoy, *Third*, Chapel Hill.
A.B., 1892, A.M., 1893, Princeton University; LL.B., 1896, University of Maryland; B.D., 1906, Union Seminary of Virginia.

Henry, George Kenneth Grant, *First*, Chapel Hill.
A.B., 1900, Hamilton College; A.M., 1904. Latin, French.

Highsmith, Edwin McKoy, *First*, Kerr.
Ph.B., 1907. History, Philosophy, English. Candidate for A.M.

Hines, Julian Colgate, Jr., *First*, Morven.
B.S., 1905. Physics, Mathematics. Candidate for Ph.D.

Hogue, Richard Wallace, *First*, Chapel Hill.
B.A., 1897, University of the South. Philosophy, English.

Howard, Claud, *First*, Pecan Gap, Tex.
A.B., 1907, East Texas Normal College. English, Pedagogy, Economics. Candidate for A.M.

Hughes, Harvey Hatcher, *Second*, Chapel Hill.
A.B., 1907. English, History, Pedagogy. Candidate for A.M.

Jones, Ovid Winfield, *First*, Winston-Salem.
A.B., 1908, Guilford College. English, History, Pedagogy.

Jordan, Stroud, *Third*, Durham.
A.B., 1905; S.M., 1907. Chemistry, Physics. Candidate for Ph.D.

McCulloch, Rufus William, *Second*, Atlanta, Ga.
A.B., 1906. English, Latin, Pedagogy. Candidate for A.M.

McKie, George McFarland, *First*, Chapel Hill.
A.B., A.M., 1907. English.

Palmer, John Brame, *First*, Warrenton.
A.B., 1908. Latin.

Parker, Luther Wood, *First*, Chapel Hill.
A.B., 1907; A.M., 1908. English, Italian.

Rhyne, Orestes Pearl, *First*, Gastonia.
A.B., 1908. English, Mathematics, German. Candidate for A.M.

Royall, William Richard, *First*, Chapel Hill.
Trinity College. Philosophy.

Speas, Jeannie Whewell, *First*, Donnaha.
A.B., 1908. Mathematics, Economics, Latin.

Vermont, Adolf, *First*, Chapel Hill.
Graduate, University of Louvain. Latin, French, English. Candidate for A.M.

Washburn, Benjamin Earl, *Third*, Chapel Hill.
A.B., 1906. English, History, Pedagogy. Candidate for A.M.

Whitley, George Thaddeus, *First*, Smithfield.
A.B., 1908. English, Mathematics, Pedagogy. Candidate for A.M.

Woodard, William Coleman, Jr., *First*, Rocky Mount.
A.B., 1908. English, History.

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SENIOR CLASS

Allen, Jerry Harrison, Arts, Rock Creek.
Armstrong, Thomas James, Jr. Arts, Rocky Point.

Barbee, Harvey Clyde,	Arts,	Morrisville.
Battle, Kemp Davis	Arts,	Rocky Mount.
Bayley, Elden,	Sci.,	Springfield, Ohio.
Bellamy, Chesley Calhoun,	Arts,	Wilmington.
Boatwright, Hal Fullerton,	Arts,	Wilmington.
Borden, Frank Kennon,	Arts,	Goldsboro.
Bowen, Stuart Vann,	Arts,	Burgaw.
Byerly, Edward Cleveland,	Arts,	Lexington.
Clonts, Henry Koopman,	Arts,	Lakeland, Fla.
Coffin, Oscar Jackson,	Arts,	Asheboro.
Costner, Jonas MacAulay, Jr.,	Arts,	Raleigh.
Cox, Oliver Cromwell,	Arts,	Leaksville.
Cox, William David	Arts,	Moyock.
Credle, Clement Gibbon,	Arts,	Swan Quarter.
Day, Jerry,	Arts,	Blowing Rock.
Edwards, Victor Clyde,	Arts,	Ore Hill.
Frazier, Cyrus Clifford, A.B., 1907, Guilford College.	Arts,	Greensboro.
Fry, William Henry,	Arts,	Fayetteville.
Gaddy, William Monroe,	Arts,	Red Springs.
Graham, Frank Porter,	Arts,	Charlotte.
Grier, William Pressley,	Arts,	Charlotte.
Hall, Bolling,	Arts,	Waynesville.
Hanes, James Gordon,	Arts,	Winston-Salem.
Houck, William Arthur,	Phil.,	Statesville
Hurdle, Samuel Walker,	Arts,	Reidsville.
Jerman, William Borden,	Arts,	Raleigh.
Johnston, John Thomas,	Arts,	Chapel Hill.
Jones, Benjamin Walton,	Sci.,	Greensboro.
Jones, Milo J.,	Arts,	Saginaw.
Keiger, James Arthur,	Arts,	Tobaccoville.
Kirkpatrick, Cleveland Fane,	Arts,	Clyde.
Lewis, Bruce Hufham,	Arts,	Scotland Neck.
Lloyd, Abbott Edward, Jr.,	Arts,	Durham.
Long, William Lunsford,	Arts,	Garysburg.
McAden, Sidney Yancey,	Arts,	Charlotte.
McLain, James Howard,	Arts,	Rowland. [N. Y.
McManis, Thomas Joseph,	Sci.,	East Pembroke,

MacRae, Duncan,	Sci.,	Chapel Hill.
McRae, Donald Conroy,	Arts,	Chapel Hill.
Mann, Joseph Spencer,	Sci.,	Fairfield.
Manning, John Hall,	Arts,	Durham.
Masten, Henry P.,	Arts,	Winston-Salem.
Michaux, William Wilson,	Arts,	Greensboro.
Montsinger, Vincent Melanchthon,	Sci.,	High Point.
Moore, John Alexander,	Arts,	Fonta Flora.
Newell, Eugene Joseph,	Arts,	Mapleville.
Oates, William Mercer,	Arts,	Tarboro.
Oliver, David Dickson,	Arts,	Mount Olive.
Osborne, Henry Plant,	Arts,	Jacksonville, Fla.
Parish, William Joel,	Sci.,	Maxton.
Parker, Joseph Allen,	Arts,	Mount Olive.
Reeves, Jeremiah Bascom,	Arts,	Mount Airy.
Robinson, Russell Marable,	Arts,	Goldsboro.
Rogers, George Oroon,	Arts,	Graham.
Roper, Oscar, B.S., 1908, Clemson College.	Arts,	Clio, S. C.
Ruffin, Colin Bradley,	Arts,	Tarboro.
Shannonhouse, George Gordon, Jr.,	Arts,	Richmond, Va.
Simmons, James Lawrence,	Arts,	Shelby.
Sparkman, Walter Gwynne,	Arts,	Lakeland, Fla.
Spencer, Carroll Baxter,	Arts,	Fairfield.
Spicer, Charles Booker,	Arts,	North Wilkesboro.
Spruill, James Franklin,	Phil.,	Oriental.
Stockton, Norman Vaughn,	Arts,	Winston-Salem.
Strowd, Wallace Headen,	Arts,	Chapel Hill.
Thomas, William George,	Arts,	Charlotte.
Thomson, Julius Faison,	Arts,	Faison.
Tillett, Charles Walter, Jr.,	Arts,	Charlotte.
Umstead, John Wesley, Jr.,	Arts,	Stem.
Vogler, Charles Alexander,	Arts,	Winston-Salem.
Wadsworth, Harvey Bryan,	Arts,	Cove City.
Wardlaw, Charles Digby,	Arts,	Chapel Hill.
Watt, Robert McDowell,	Sci.,	Charlotte.
Welborn, Edgar Strickland,	Arts,	Thomasville.
Willis, Norman Lee,	Arts,	Beaufort.

Wilson, Robert McArthur,	Arts,	Goldsboro.
Winslow, Francis Edward,	Arts,	Hertford.

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JUNIOR CLASS

Avery, Lenoir Thomas,	Arts,	Morganton.
Baucom, George Urias, Jr.,	Arts,	Clayton.
Bauguess, Walter Raleigh,	Arts,	Weasel.
Beam, Michael Seth,	Arts,	Henry.
Belden, Louis deKeyser,	Sci.,	Wilmington.
Benson, Walter Cleveland,	Arts,	Wilmington.
Blackburn, Leonard Anderson,	Sci.,	Winston-Salem.
Boushall, John Heck,	Arts,	Raleigh.
Browne, Clement Coote, Jr.,	Sci.,	Wilmington.
Brown, Levi Ames,	Arts,	Greenville.
Bryant, Edwin Wall,	Arts,	Laurinburg.
Carrington, Sterling Ruffin,	Arts,	Durham.
Craver, Harvey Oscar,	Arts,	Enterprise.
Croswell, James Earle,	Arts,	Wilmington.
Dameron, Thomas Barker,	Arts,	Warrenton.
Darden, William Arthur,	Arts,	Fremont.
DeLaney, Ernest Stanhope,	Arts,	Matthews.
Dellinger, Russell Conway,	Arts,	Lincolnton.
Dixon, Richard Dillard,	Sci.,	Edenton.
Drane, Robert,	Arts,	Edenton.
Eames, Richard Davis,	Sci.,	Salisbury.
Eason, Joseph Daniel, Jr.,	Arts,	Saratoga.
Edmonds, William Rufus,	Arts,	Elkin.
Everett, James Alphonso,	Arts,	Palmyra.
Farrior, John Broadhurst,	Arts,	Asheville.
Fentress, Baxter Lee,	Arts,	Summerfield.
Ferguson, William Haigler,	Arts,	Kendal.
Franck, Edward Lee,	Arts,	Richlands.
Fuentes, Francisco Virgilio,	Sci.,	Camaguey, Cuba.
Garrett, Cecil Clark,	Arts,	Julian.
Guion, John Amos,	Arts,	Newbern.
Hamilton, Oscar Alexander,	Arts,	Unionville.
Harris, David Samuel,	Sci.,	Enfield.

Hathcock, William Henry,	Arts,	Albemarle.
Highsmith, James Albert,	Arts,	Currie.
Hines, James Williams, Jr.,	Arts,	Rocky Mount.
Hughes, Isaac Wayne,	Sci.,	Newbern.
Hughes, John Edward,	Sci.,	Elizabeth City.
Hyman, Orren Williams,	Arts,	Tarboro.
Johnston, Joseph Henry,	Arts,	Chapel Hill.
Jones, Ernest,	Arts,	Warrenton.
Joyner, James Noah,	Arts,	Raleigh.
Kerr, Langdon Chevis,	Arts,	Clinton.
Kramer, Daniel Raymond,	Sci.,	Elizabeth City.
Lasley, John Wayne, Jr.,	Arts,	Burlington.
Leitch, John Archibald, Jr.,	Arts,	Rowland.
Livermore, Russell Hayes,	Arts,	Red Springs.
Lloyd, Orin Cottrell,	Arts,	Durham.
McCulloch, Leon,	Arts,	Greensboro.
McNeill, Robert Strange,	Arts,	Fayetteville.
Mercer, John Routh,	Arts,	Elm City.
Morgan, Albert Rufus,	Arts,	Waynesville.
Nash, Thomas Palmer, Jr.,	Arts,	Elizabeth City.
Nixon, Joseph Robert,	Arts,	Lincolnton.
Patterson, James Southerland,	Arts,	Chapel Hill.
Plummer, Nixon Sandy,	Arts,	Greensboro.
Ramsaur, William Hoke,	Arts,	China Grove.
Rankin, Rufus Grady,	Arts,	Gastonia.
Ray, Donald Fairfax,	Arts,	Fayetteville.
Reeves, John Mercer,	Arts,	Mount Airy.
Robinson, Charles Oakley,	Arts,	Elizabeth City.
Rodman, William Blount, Jr.,	Arts,	Charlotte. [Cuba.]
Rodriguez, Eduardo Francisco,	Sci.,	Sagua la Grande,
Rodriguez, Marcos Salvador,	Sci.,	Cifuentes, Cuba.
A.B., 1904, Barcelona Institute (Spain).		
Rose, Thomas Duncan,	Sci.,	Fayetteville.
Sloan, David Bryan,	Arts,	Ingold.
Small, Walter Lowry,	Arts,	Elizabeth City.
Smith, James Rierson,	Arts,	Pilot Mountain.
Smith, William Alexander,	Sci.,	Goldsboro.
Snider, William Marvin,	Arts,	Salisbury.

Sowers, Hugh,	Arts,	Salisbury.
Stacy, Horace Edney,	Arts,	Belwood.
Stevens, Leon Gladstone,	Arts,	Smithfield.
Stroup, Samuel Bradley,	Arts,	Arden.
Struthers, David Lindsay,	Sci.,	Grists.
Taylor, Benjamin Franklin,	Arts,	Bogue.
Taylor, John Leonard,	Arts,	Richlands.
Taylor, Lewis Nathaniel,	Arts,	Oxford.
Teague, Dossey Battle,	Arts,	Cameron.
Teague, Samuel Farris,	Arts,	Cameron.
Thompson, Hugh Alexander,	Arts,	Raleigh.
Turlington, Lee Franklin,	Arts,	Smithfield.
Urquhart, Richard Alexander,	Arts,	Lewiston.
Venable, Charles Scott,	Arts,	Chapel Hill.
Venable, John Manning,	Arts,	Chapel Hill.
Vreeland, Harold Van Pelt,	Arts,	Charlotte.
Walker, Duncan De Vane,	Arts,	Warsaw.
Wildman, James Rowland,	Arts,	Chapel Hill.
Williams, Daniel McGregor,	Sci.,	Newton.
Wolfe, Adolphus Harrison,	Arts,	Elkin.

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Sophomore Class

Allison, James Richard,	Arts,	Pisgah Forest.
Austin, James Allen,	Elect. Law,	New London.
Aycock, William Preston,	Sci.,	Lucama.
Bailey, Karl Braswell,	Arts,	Elm City.
Barbee, Connie Cozette,	Arts,	East Durham.
Barnhardt, Eugene Columbus, Jr.,	Arts,	Concord.
Battle, John Manning,	Arts,	Battleboro.
Belk, William Parks,	Arts,	Charlotte.
Blue, Alexander McNeill,	Arts,	Carthage.
Bond, Edward Griffith,	Arts,	Edenton.
Bryan, Daniel Bunyan,	Arts,	Apex.
Buchan, Edward Robertson,	Arts,	Manly.
Burgwin, Kenneth Ogden,	Arts,	Pittsburgh, Pa.
Cannon, Allen Robert,	Arts,	Ayden.

Cannon, Jesse Dixie,	Arts,	Ayden.
Cheshire, James Webb,	Arts,	Raleigh.
Claytor, Robert Hume,	Arts,	Chapel Hill.
Cocke, Eugene Rankin,	Arts,	Asheville.
Colvard, Joseph Bower,	Arts,	Jefferson.
Cooper, John Henry,	Arts,	Clinton.
Cooper, Williamson Lee, Jr.,	Arts,	Graham.
Cowles, Joseph Sanford,	Arts,	Wilkesboro.
Cowper, Bryan Grimes, Jr.,	Arts,	Raleigh.
Cox, Foster Nugent,	Arts,	Leaksville.
Crouse, David Stowe,	Arts,	Lincolnton.
Daniels, George Seabrook,	Arts,	Goldsboro.
Davidson, William Samuel,	Arts,	Taylorsville.
Davis, Edwin Bonner,	Arts,	Morganton.
Davis, Martin Jones,	Arts,	Warrenton.
Dawson, Joseph Green,	Arts,	Newbern.
Deal, Roy Linney,	Arts,	Taylorsville.
Deans, Archibald Battle,	Arts,	Wilson.
Dees, William Archibald,	Arts,	Pikeville.
Dickson, Paul,	Arts,	Raeford.
Dobbins, James Talmage,	Arts,	Rockford.
Duls, Ferdinand John,	Arts,	Wilmington.
Eason, Joshua Lawrence,	Arts,	Saratoga.
Ellis, William Burwell, Jr.,	Sci.,	Winston-Salem.
Everett, William Nash, Jr.,	Sci.,	Rockingham.
Feild, Alexander Littlejohn,	Arts,	Raleigh.
Fetzer, Paul Williams,	Elect. Med.,	Reidsville.
Freeman, John Webster,	Arts,	Mooresville.
Gatlin, Jesse Cecil,	Arts,	Stonewall.
George, Wesley Critz,	Arts,	Elkin.
Gilliam, Louis Chamberlain,	Sci.,	Tarboro.
Graham, George,	Arts,	Charlotte.
Guess, William Coleman,	Arts,	Apex.
Gunter, Charles Walker,	Arts,	Sanford.
Hackney, James Acra,	Arts,	Wilson.
Hall, Jack Horner,	Arts,	Woodsdale.
Hall, Roger Baker,	Arts,	Lenoir.
Halliburton, John Brevard,	Arts,	Chapel Hill.

Hardison, Oscar Bennett,	Arts,	Wadesboro.
Harris, John Warton,	Arts,	Reidsville.
Hiatt, Charles Edward,	Arts,	Pilot Mountain.
Hough, Frank,	Arts,	Birmingham, Ala.
Hunter, Robert Lee,	Sci.,	Afton.
James, Archibald Hand,	Arts,	Laurinburg.
Johnson, James Talbot,	Arts,	Aberdeen.
Jones, Morehead,	Arts,	Charlotte.
Jones, Michael Herbert,	Arts,	Greensboro.
Joyner, William Thomas,	Arts,	Raleigh.
Kelly, Frank Roscoe,	Sci.,	Henderson.
Kimrey, Arthur Charm,	Arts,	Rock Creek.
Knight, Burke Haywood,	Arts,	Williamston.
Koiner, Junius Spaeth, Jr.,	Sci.,	Conover.
Kuperschmidt, Samuel,	Sci.,	New York, N. Y.
Lee, Culbert McSween, Jr.,	Arts,	Timmonsville,
Leonard, Samuel Edwin,	Arts,	Lexington. [S. C.
Llorens, Francis,	Sci.,	Santiago, Cuba.
Llorens, Felix Luciano,	Sci.,	Santiago, Cuba.
Llorens, Tomas Vicente,	Sci.,	Santiago, Cuba.
Long, Wyeth Woollen,	Arts,	Greensboro.
Lyon, Henry Wise,	Arts,	Windsor.
Lyon, William Elkanah,	Arts,	Hester.
McCulloch, Edgar Franklin, Jr.,	Arts,	White Oak.
McDiarmid, Henry William,	Arts,	Raeford.
McGoogan, John Archibald,	Arts,	Shannon.
McKay, John Archibald,	Arts,	Lillington.
McLean, Ernest Cobb,	Arts,	Gibsonville.
MacLean, John Allan, Jr.,	Arts,	Maxton.
McLean, John Duncan,	Arts,	Barium Springs.
McLean, Robert Clay,	Sci.,	Brevard.
MacRae, Alfred Evelyn Claytor,	Arts,	Fayetteville.
Mann, Grover Carlisle,	Arts,	Franklin.
Martin, Herbert Lee,	Sci.,	Elizabeth City.
Maupin, William Firey,	Sci.,	Salisbury.
Menefee, Charles Edwin,	Arts,	Danville, Va.
Montague, Paul Nissen,	Arts,	Winston-Salem.
Moseley, Robert Franklin,	Arts,	Clinton.

Moser, Ira Cleveland,	Arts,	Rock Creek.
Mullican, Naaman Spencer,	Arts,	Clemmons.
Nance, Paul Harris,	Arts,	Winston-Salem.
Newton, John Mills,	Arts,	Thomasville.
O'Brien, John Joseph,	Arts,	Durham.
Osborne, Virgil Waite,	Arts,	Brevard.
Palmer, Gus,	Arts,	Gulf.
Parsley, William Murdoch,	Sci.,	Wilmington.
Pinnix, Marshall Kerr,	Arts,	Oxford.
Powell, Walter Hoge,	Arts,	Whiteville.
Pritchard, George Littleton,	Arts,	Swansboro.
Ray, Hubert Roy,	Arts,	Raleigh.
Rhodes, Adrian Burbank,	Arts,	Wilmington.
Rhodes, George Washington,	Arts,	Riverdale.
Roberson, Hoyt Goddard,	Arts,	Pollocksville.
Roberts, George Hollister, Jr.,	Arts,	Newbern.
Roberts, Rufus Gilbert,	Arts,	Shelby.
Rosenan, Pleasant Dennont,	Arts,	Salisbury.
Ross, Levan Ferree,	Arts,	Asheboro.
Royall, Samuel Jerome,	Arts,	Wilmington.
Rutzler, George Frederick, Jr.,	Arts,	Charlotte.
Shields, John Montgomery,	Arts,	Enfield.
Shipp, Burton Jeddiah,	Arts,	Pamlico.
Slade, Thomas Bog, Jr.,	Sci.,	Hamilton.
Smith, Henry Clark,	Arts,	Charlotte.
Smith, Lewis J.,	Arts,	Cullowhee.
Smith, Richard Raymond,	Sci.,	Rock Hill, S. C.
Solomon, Harry Meyer,	Arts,	Wilmington.
Sory, William Haltom,	Sci.,	Saltillo, Miss.
Speight, James Ambler,	Arts,	Whitakers.
Stallings, George Whitfield,	Arts,	Henderson.
Stewart, Albert,	Sci.,	Fayetteville.
Stewart, Barney Cleveland,	Arts,	Lancaster, S. C.
Stockton, Richard Gordon,	Arts,	Winston-Salem.
Tanner, Kenneth Spencer,	Sci.,	Charlotte.
Tate, Charles Gordon,	Arts,	Morganton.
Taylor, Walter Frank,	Arts,	Faison.
Thomas, William Renn,	Arts,	Hiddenite.

Thompson, Cyrus, Jr.,	Arts,	Jacksonville.
Thompson, Gordon Wesley,	Arts,	Spray.
Tillett, John,	Arts,	Charlotte.
Trotter, Benjamin Carter,	Arts,	Reidsville.
Turlington, Edgar Willis,	Arts,	Smithfield.
Tyson, Claude Philips,	Arts,	Carthage.
Vogler, Herbert Augustus,	Arts,	Winston-Salem.
Voils, Thaddeus Williams,	Sci.,	Mooresville.
Walker, Joseph Gabriel,	Arts,	Graham.
Walker, Robert Harris,	Arts,	Reidsville.
Ward, Eugene Carroll,	Arts,	Waynesville.
Warren, Edgar Poe,	Arts,	Bushy Fork.
Watkins, Edwin Goode,	Arts,	Henderson.
Watters, John Piper,	Sci.,	Charlotte.
Waynick, Capus Miller,	Arts,	Greensboro.
Webb, Richard Thompson,	Arts,	Bell Buckle, Tenn.
Wellons, Elmer James,	Arts,	Smithfield.
Wetzell, Frederick Scott,	Arts,	Gastonia.
Wharton, Cyrus Richard,	Arts,	Gibsonville.
Wharton, John Hill,	Sci.,	Clemmons.
Whitney, Floyd Gilbert,	Arts,	Bessemer City.
Williams, Clawson Lee,	Arts,	Sanford.
Williams, Edward Locke,	Arts,	Greensboro.
Williams, Louis Hicks,	Arts,	Faison.
Williard, Charles Wilson,	Sci.,	Winston-Salem.
Witherington, Isham Faison,	Arts,	Faison.
Withers, George Lee,	Elect. Med.,	Davidson.
Wommack, Sidney Lamar,	Arts,	Clemmons.
Wood, John Elliott,	Arts,	Elizabeth City.
Wyatt, Marshall Boylan,	Arts,	Chapel Hill.
Zollicoffer, Algernon Augustus,	Arts,	Henderson.
Zollicoffer, Jere Perry,	Arts,	Henderson.

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Freshman Class

Alexander, Odom,	Arts,	Charlotte.
Alexander, Samuel Allen,	Elect. Med.,	Creswell.
Allen, Connor Middleton,	Arts,	Kinston.

Anderson, Waldo Floyd,	Arts,	Fair Bluff.
Armstrong, Cleaton Otis,	Arts,	Ayden.
Armstrong, Charles Wallace,	Arts,	Troy.
Atkinson, Alexander Morse,	Sci.,	Enfield.
Banks, Charles Augustus, Jr.,	Arts,	Elizabeth City.
Barker, Frank Pendleton,	Arts,	Pembroke, Ky.
Battle, Belknap,	Arts,	Asheville.
Baynes, Ralph Henry,	Elect. Med.,	Hurdles Mill,
Bizzell, Adlai Walter,	Elect. Med.,	Newton Grove.
Blair, Henry Neal,	Arts,	Boone.
Blair, Isaac Henry,	Elect. Med.,	Monroe.
Blalock, David Remus,	Arts,	Raleigh.
Blalock, Edward Smith,	Elect. Law,	McCullers.
Bobbitt, Robert Willis,	Arts,	Henderson.
Booth, James Lynch,	Arts,	Oxford.
Bouldin, David Lee,	Arts,	Archdale.
Boushall, Joseph Dozier, Jr.,	Arts,	Raleigh.
Boykin, Irvine Manning,	Arts,	Boykin, S. C.
Branman, Wade Melbery,	Elect.Med.,	Selma.
Broadfoot, Charles Wetmore, Jr.,	Arts,	Fayetteville.
Brown, Eugene Fisher,	Sci.,	Concord.
Burch, Baxter Arnold,	Arts,	Roxboro.
Burgess, Caleb Kight,	Arts,	Old Trap.
Carter, Walter,	Arts,	Salisbury.
Cates, Clyde Lucius,	Arts,	Chapel Hill.
Chambers, Hardy Susong,	Arts,	Asheville.
Childs, Wade Hampton,	Arts,	Lincolnton.
Clinard, Walter Bascom,	Arts,	High Point.
Clingman, John Burton,	Arts,	Winston-Salem.
Clinton, Roland Smith,	Arts,	Gastonia.
Clinton, Thaddeus Prella,	Arts,	Gastonia.
Cobb, William Battle,	Arts,	Chapel Hill.
Coleman, Henry Grady,	Arts,	Silver Street, S. C.
Cook, Benjamin Edwards,	Arts,	Muskogee, Okla.
Cooke, Charles Spurgeon,	Arts,	Charlotte.
Cook, Charles Wesley,	Sci.,	Asheville.
Cook, Walter Watson,	Arts,	Fayetteville.
Cordon, Joseph Palamountain,	Arts,	Clayton.

Covington, Thomas Jefferson,	Arts,	Pinnacle.
Cox, Richard Benjamin,	Arts,	Wilmington.
Cozart, Allen Bacon,	Arts,	Stem.
Craven, James Rowland,	Arts,	Charlotte.
Craver, Henry Cleveland,	Arts,	Enterprise.
Crews, Numa Haden,	Elect. Med.,	Henderson.
Critcher, Charles Edward,	Arts,	Oxford.
Crutchfield, William Jesse,	Arts,	Greensboro.
Daniel, James Manly, Jr.,	Arts,	Denton.
Dellinger, Jacob Cedric,	Arts,	Hickory.
Denton, Beecher Tate,	Arts,	Charlotte.
Dixon, Stiles Sedberry,	Arts,	Fayetteville.
Doub, Henry Ward,	Arts,	Tobaccoville.
Drane, Frederick Blount,	Arts,	Edenton.
Duncan, Vernon Van Duke,	Arts,	Clayton.
Dysart, Louis Albert,	Arts,	Lenoir.
Eaker, Charles Lee,	Arts,	Cherryville.
Egerton, Weldon Davis,	Arts,	Louisburg.
Falkener, William White,	Arts,	Warrenton.
Farnell, Leland Borden,	Arts,	Hubert.
Fenner, James Smith Paull,	Arts,	Halifax.
Flinn, Thomas Smyth,	Arts,	Columbia, S. C.
Folger, Alonzo Dillard,	Arts,	Dobson.
Gattis, Samuel Mallette, Jr.,	Arts,	Hilisboro.
Graham, Alexander Hawkins,	Arts,	Hillsboro.
Graham, Augustus Washington, Jr.,	Arts,	Oxford.
Grimsley, Harry Barnette,	Arts,	Greensboro.
Grubb, Bruce S.,	Arts,	Rondo, Va.
Gwynn, Price Henderson, Jr.,	Arts,	Spray.
Harris, Elisha Carter,	Arts,	Elizabeth City.
Harris, Jack Hawley,	Arts,	Raleigh.
Harry, Woodfern Grady,	Arts,	Grover.
Heard, Joseph Eugene,	Arts,	Memphis, Tenn.
Hemphill, Clyde Hoke,	Arts,	Nebo.
Hemphill, Frederick Herbert,	Arts,	Nebo.
Hendrix, William Franklin,	Arts,	Unionville.
Higgins, Carlisle,	Arts,	Eunice.
Hill, Joel Ragsdale,	Arts,	Lexington.

Hobbs, Graham Kerr,	Arts,	Keener.
Hobgood, Andrew Jackson, Jr.,	Arts,	Battleboro.
Hoffman, Joseph Filson,	Arts,	High Point.
Hooker, Frank Bruce,	Arts,	Greenville.
Hossfeld, Frederick William, Jr.,	Arts,	Morganton.
Hossfeld, William Emil,	Arts,	Morganton.
Hovis, Frank,	Arts,	Charlotte.
Hughes, John Winder,	Arts,	Newbern.
Hunter, Thomas May,	Elect. Law,	Fayetteville.
Hutchins, George Watkins,	Arts,	Baltimore, Md.
Iseley, Vernon,	Arts,	Burlington.
James, Fairly Patterson,	Arts,	Laurinburg.
Jarrett, Harry Hamilton, Jr.,	Arts,	Franklin.
Johnson, Clarence Walton,	Arts,	Four Oaks.
Johnston, Leslie Newcurk,	Arts,	Wilmington.
Johnston, Richard Horace,	Arts,	Charlotte.
Jonas, Harvey Adolphus,	Arts,	Reepsville.
Jones, Gilmer Andrew,	Arts,	Franklin.
Jones, William Myers,	Arts,	Charlotte.
Joyner, Thomas Eli,	Arts,	Farmville.
Keeter, Charles Henry,	Arts,	Merry Hill.
King, Robert Ruffin, Jr.,	Arts,	Greensboro.
Kirkpatrick, Hiram Silas	Elect. Law,	Clyde.
Kleinecke, Arthur E.,	Arts,	Galveston, Tex.
Lamb, Luke,	Arts,	Williamston.
Lambeth, Walter Moore,	Elect. Law,	Fayetteville.
Lanier, James Conrad,	Arts,	Greenville.
Larkin, John Tyer,	Arts,	Carthage.
Lassiter, Jesse Cleveland,	Arts,	Liberty.
Long, Henry Fairly,	Arts,	Rockingham.
Long, Thomas Sparrow,	Elect. Med.,	Lake Landing.
Love, James Frank,	Arts,	Statesville.
Lyon, Brockton Reynolds,	Arts,	Greensboro.
McAden, Joel Jenkins,	Arts,	Charlotte.
McCoy, Halliburton,	Arts,	Asheville.
McIntosh, John William,	Arts,	Denver.
McIver, Monroe Anderson,	Arts,	Gulf.
McKinney, Harold Napoleon,	Arts,	Baltimore, Md.

McKoy, William Ancrum,	Arts,	Wilmington.
McLean, William Thaddeus,	Arts,	Raeford.
Manning, James Smith, Jr.,	Arts,	Durham.
Marrow, Henry Burwell,	Arts,	Henderson.
Moore, John Jay,	Arts,	Franklin.
Moore, Thomas,	Arts,	Webster.
Moore, William Percy,	Sci.,	Bynum.
Moore, William Peter,	Arts,	Fonta Flora.
Morgan, Joseph Patrick,	Arts,	Shawboro.
Morgan, Lawrence Nelson,	Arts,	Goldsboro.
Morris, James Ward, Jr.,	Arts,	Tampa, Fla.
Murchison, David Reid,	Arts,	Wilmington.
Neely, Herron,	Arts,	Charlotte.
Nichols, John Grayson,	Arts,	Marion.
Nichols, Spencer Van Bokkelen,	Arts,	Wilmington.
Nimocks, Alfred Byron,	Arts,	Fayetteville.
Nimocks, Quincy Kellogg, Jr.,	Arts,	Fayetteville.
Norman, Clarence Edward,	Arts,	Concord.
Oates, William Holt,	Elect. Law,	Hendersonville.
Oliver, James Francis,	Arts,	Mount Olive.
Orr, James Lawrence,	Arts,	Wilmington.
Page, Thaddeus Shaw,	Arts,	Biscoe.
Parish, Henry Lynch, Jr.,	Sci.,	Hillsboro.
Parker, Robert Hunt,	Arts,	Enfield.
Partrick, Theodore Hall, Jr.,	Arts,	Clinton.
Perry, Redding Francis,	Arts,	Henderson.
Phillips, James Dickson,	Arts,	Meredith.
Phillips, William Allston,	Arts,	Fall Creek.
Pittman, Columbus Washington Eagles,	Arts,	Whitakers.
Price, Thomas Moore,	Arts,	Madison.
Quincy, Cary Perry,	Arts,	Merry Hill.
Rand, James Hall,	Arts,	Smithfield.
Rankin, Edgar Ralph,	Arts,	Gastonia.
Reece, James Thaddeus,	Arts,	Yadkinville.
Riggs, Oliver L.,	Arts,	Durham.
Rimmer, Eugene Freeland,	Arts,	Hillsboro.
Ritch, Marvin Lee,	Arts,	Charlotte.

Roberson, Charles Abram,	Arts,	Robersonville.
Rodman, Nathaniel Fulford,	Elect. Med.,	Charlotte.
Rogers, William White,	Arts,	Timberlake.
Royster, Thomas Sampson,	Arts,	Townesville.
Scott, Rosa Naomi,	Elect. Teach.,	Knoxville, Tenn.
Shore, Archibald Dean,	Arts,	East Bend.
Sloan, Jesse Richardson,	Arts,	Franklin.
Smathers, Robert Raymond,	Elect. Law,	Waynesville.
Spainhour, Carl Michael,	Arts,	Morganton.
Sprinkle, Cicero Chester,	Arts,	Tobaccoville.
Stacy, Lucius Eugene, Jr.,	Arts,	Belwood.
Stuart, Rex Exum,	Arts,	Kernersville.
Stubbs, Harry Murden,	Arts,	Williamston.
Swicegood, Louis Alexander,	Arts,	Salisbury.
Talley, Frank,	Arts,	Randleman.
Taylor, Alexander,	Arts,	Morganton.
Towers, Edwin Gardner Weed,	Arts,	North Conway,
Tucker, Royce Ernest,	Arts,	Winterville. [N.H.
Turlington, Roscoe Allen,	Arts,	Clinton.
Turnage, Allen Hal,	Arts,	Farmville.
Turnage, David Lee,	Arts,	Farmville.
Van Poole, Carlmon Marcellus,	Arts,	Salisbury.
Van Poole, Robert Linn,	Arts,	Salisbury.
Vanstory, Robert McLean,	Arts,	Greensboro.
Wakeley, William Easton,	Sci.,	Orange, N. J.
Wall, Leroy Byron,	Elect. Law,	Tobaccoville.
Warlick, Robert Coston,	Arts,	Jacksonville.
Warren, Andrew Jackson,	Arts,	Bushy Fork.
Watlington, James Bracken,	Arts,	Quick.
Wilkerson, Thaddeus Earl,	Arts,	Roxboro.
Wilkins, John William,	Arts,	Rose Hill.
Wilkinson, Lawrence Hamlet,	Arts,	Charlotte.
Williams, Isham Rowland,	Arts,	Faison.
Wilson, William Rosser,	Arts,	Greenville.
Winston, Robert Watson, Jr.,	Arts,	Durham.
Wood, George Collins,	Arts,	Edenton.
Yelverton, Emmor Harrison,	Arts,	Goldsboro.
Young, Bennett St. Clair,	Arts,	East Durham.

Students in Law

Baggett, John Robert,	Buie's Creek.
Banks, Benjamin Leonidas, Jr., A.B., 1908.	Elizabeth City.
Barnhill, Maurice Victor, Jr.,	Enfield.
Battle, Kemp Davis,	Rocky Mount.
Blount, Judson Hassell,	Bethel.
Brinson, Frank Clifford,	Reelsboro.
Burgwyn, William Hyslop Sumner, Jr.,	Jackson.
Byrd, Walter Pierce,	Lillington.
Calvert, John Strong,	Wilmington.
Caviness, Herman Cummings,	Greensboro.
Chapman, Byron Vivian, Ph.B., 1906, Newberry College.	Little Mountain, S. C.
Coughenour, William Chambers, Jr., A.B., 1908.	Salisbury.
Dalton, Carter, Ph.B., 1906.	Greensboro.
Dalton, William Reid,	Reidsville.
Daniels, Frank Borden,	Goldsboro.
Davenport, Louis Ludford,	Rocky Mount.
Dawson, John Gilmer,	Kinston.
Dellinger, Jacob Cedric,	Hickory.
Douglas, Martin Francis, Ph.B., 1908, Catholic University of America.	Greensboro.
Dunlap, Fleetwood Ward,	Ansonville.
Dunn, Ashby Wood, B.A., 1908, Wake Forest College.	Scotland Neck.
Fitzgerald, Troy,	High Point.
Folger, Joseph Mather, LL.B., 1908, University of Chattanooga.	Crutchfield.
Fountain, George Marion, A.B., 1908.	Tarboro.
Frazier, Cyrus Clifford, A.B., 1907, Guilford College.	Greensboro.
Gaylord, Louis Woodson,	Plymouth.
Gibbons, Lemuel Hardy, A B., 1904, Trinity College.	Sanford.
Gilliam, Donald,	Tarboro.
Gorham, Edmund Hines,	Wilson.

Grimes, Walter Hanrahan,	Raleigh.
Guion, William Blount Rodman,	Newbern.
Harris, William Clinton,	Raleigh.
Hawkins, Donald Duval,	Winston-Salem.
Howell, Robert Vance,	Troy.
Hudson, Stephens Glenn,	Greensboro.
James, James Burton, Ph.B., 1907.	Greenville.
Johnson, Walter Reade,	Winston-Salem.
Keener, Artus Alexander, B.A., 1906, Catawba College.	Maiden.
Kelly, Frank Clement,	Philadelphia, Pa.
Lawrence, Squire Solomon,	Pinnacle.
Leatherbury, Charles Neely, A.B., 1904, William and Mary College.	Norfolk, Va.
Lindsay, William Edgar,	Chapel Hill.
Linville, Edward Moses,	Kernersville.
Long, James Adolph, Ph.B., 1905, Elon College.	Graham.
Long, William Lunsford,	Garysburg.
McCall, Joseph Herbert, B.S., 1907, Young Harris College.	Young Harris, Ga.
McKnight, Herbert Crosby, A.B., 1905, Lenoir College.	China Grove.
McLain, James Howard,	Rowland.
McLean, James Dickson,	Laurinburg.
McPhail, Ama Riah,	Mount Olive.
Martin, Lister Allen,	Leaksville.
Masten, Henry P.,	Winston-Salem.
Matthews, Luther Preston, A.B., 1908.	Siloam.
Meares, George Folger,	Wilmington.
Miller, Robert Alexander, Jr.,	Lowell.
Moore, William Chester, A.B., 1906, Wofford College.	Moore, S. C.
Morehead, James Lathrop, Ph.B., 1903.	Durham.
Morehead, James Turner, Jr.,	Greensboro.
Morrison, Allen Turner, A.B., 1907.	Asheville.

Parrish, Frederick Mortimer, L.I., William and Mary College.	Hadensville, Va.
Paul, David Brown,	Charlotte.
Peirce, Wentworth Willis,	Warsaw.
Perry, Daniel Elijah,	Kinston.
Perry, Henry Leslie,	Henderson.
Poisson, Louis Julian,	Wilmington.
Queen, John Montreville, B.S., 1907, Weaverville College.	Waynesville.
Rawlings, Edward Garlick, Jr.,	Wilson.
Rawls, Zebulon Vance,	Bayboro.
Robinson, John Moseley, Ph.B., 1907.	Goldsboro.
Robinson, William Smith O'Brien, Jr., Ph.B., 1907.	Goldsboro.
Ross, Charles Thomas,	Leaksville.
Schimpf, Frank August, Jr.,	Philadelphia, Pa.
Schulken, Martin Henry,	Whiteville.
Sidbury, Kirby Cleveland, Ph.B., 1907.	Holly Ridge.
Smith, Cosmos Reginald,	Newbern.
Smith, Colin Shaw,	Rose Hill.
Spruill, James Franklin,	Oriental.
Stacy, Walter Parker, A.B., 1908.	Belwood.
Stancell, Samuel Turner, Ph.B., 1908.	Margarettsville.
Staton, Marshall Cobb, A.B., 1904.	Tarboro.
Steele, Ernest,	Ansonville.
Stern, Sidney Joseph,	Greensboro.
Stewart, Edward Latham, A.B., 1908.	Washington.
Swindell, Harry,	Belhaven.
Taylor, John Herbert,	Aurelian Springs.
Taylor, Van Hampton,	Howellsville.
Thompson, William Anderson,	Aurora.
Tillett, Charles Walter, Jr.,	Charlotte.
Tooly, John Gaskill,	Belhaven.
Vann, John Colin MacRae,	Wilmington.

Vermont, Adolf,	Chapel Hill.
Wiggins, James Middleton, Jr.,	Suffolk, Va.
Winborne, Stanley, Ph.B., 1907.	Murfreesboro.
Wooten, Ernest Lee,	Maxton.

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Students in Medicine

Amick, William Gray, Ph.B., 1905.	First,	Liberty.
Austin, Henry Exum,	First,	Clayton.
Barbee, George Speight,	Third,	Morrisville.
Barefoot, Mordecai Lee,	Third,	Dunn.
Battle, George Cullen,	First,	Rocky Mount.
Beard, Grover Cleveland,	First,	Stedman.
Beasley, Edward Bruce,	Second,	Coleraine.
Benbow, John Thomas,	Fourth,	East Bend.
Bernard, Holman,	Second,	Raleigh,
Blalock, Burman Karl,	First,	Norwood.
Boatwright, Hal Fullerton,	First,	Wilmington.
Bowers, Marvin Arthur, A.B., 1907.	Second,	Lake.
Braddy, Wade Hampton,	Fourth,	Jessama.
Bridgers, Robert Rufus, A.B., 1908.	First,	Wilmington.
Bronfin, Isidor David,	Second,	New York, N. Y.
Buchanan, Sidney Eli,	First,	Concord.
Campbell, Alston Cook,	Third,	Jonesboro.
Cannady, Nicholas Boddie,	Second,	Oxford.
Cannon, William Franklin, Jr.,	First,	Concord.
Chapin, William Burdette,	Fourth,	Pittsboro.
Cummings, Michael Penn, Ph.B., 1907.	Second,	Reidsville.
Cutchin, Joseph Henry, Jr.,	Second,	Whitakers.
Dalton, Frank Ellington,	First,	Winston-Salem.
Daniels, Ralph Livingston,	First,	Oriental.
Davis, Joseph Franklin,	First,	Glendon.
Deutschman, David,	Second,	New York, N. Y.
Dunlap, Lucius Victor,	Fourth,	Ansonville.
Dyer, John Wesley,	First,	High Point,

Eagles, Charles Sidney,	Fourth,	Fountain.
Eason, Oscar,	Third,	Archer.
English, Ernest Lafayette,	Second,	Faust.
Farrior, James William,	First,	Kenansville.
M.E., Cornell University.		
Flagler, Charles Steward,	Second,	Stroudsburg, Pa.
Fleming, William Leroy,	Third,	Hassell.
Gentry, George Wesley,	Third,	Roxboro.
Gold, Charles Fortune,	Third,	Shelby.
Graul, Frederick Workman,	First,	Wernersville, Pa.
Hackney, Benjamin Hall,	Second,	Bynum.
Hardee, Walter Pirson,	First,	Stem.
Harper, James Madison,	Third,	Kinston.
Harrison, Mac Miller,	Second,	Palmetto, Fla.
A.B., 1905, Furman University.		
Hartsell, Joseph Albert,	First,	Concord.
Hawes, Stephen James,	Second,	Atkinson.
Hedgpeth, Harry Malcomb,	First,	Fayetteville.
Hester, Joseph Robert,	Third,	Wendell.
Hinnant, Milford,	First,	Selma.
Hunter, William Blair,	Second,	Gastonia.
Jacocks, William Picard,	Second,	Windsor.
A.M., 1907.		
Johnson, Bayard Cleveland,	Fourth,	Ingold.
Johnson, Lee,	Second,	Asheville.
Johnson, Wiley Carroll,	First,	Canton.
Jones, Herbert Pryor,	First,	Rutherford Col-
Jones, John Paul,	First,	Franklin. [lege.
Judd, Eugene Clarence,	Second,	New Hill.
Keiger, Oscar Rhodolph,	Second,	Tobaccoville.
Kernodle, Charles Edward,	Second,	Altamahaw.
Kerns, Thomas Cleveland,	Second,	Salisbury.
A.B., 1907.		
King, Isham,	First,	Sanford.
King, Sion Joseph,	First,	Wilmington.
Lee, Earl Gordon,	First,	Clinton.
LeGwin, John Bunyan,	Second,	Wilmington.
Lester, William Evans,	Second,	McColl, S. C.

Littleton, Henry Ward, Ph.B., 1906.	First,	Albemarle.
Lloyd, Braxton Bynum,	Fourth,	Chapel Hill.
McGoogan, Benjamin Jane,	First,	Rennert.
McLean, Frank, A.M, 1907.	Second,	Maxton.
Maness, John Moses,	Fourth,	Hemp.
Mann, Ira Thurman,	First,	High Point.
Mauser, Roscoe Frederick, A.B, 1908, Lenoir College.	First,	Hickory.
Moore, John Walker, B.S., 1906, Davidson College.	First,	McConnellsville, [S. C.
Morrison, Edward Fury Cornelius,	First,	Philadelphia, Pa.
Moser, William Dexter,	Third,	Rock Creek.
Neal, Horace Moore,	First,	Monroe.
Norman, Zebulon Vance,	First,	Plymouth.
Ogburn, Herbert Hammond, B.S., 1908, West Lafayette College.	First,	Greensboro.
Page, Oscar Clyde,	Second,	Durham.
Parker, William Hendrix,	First,	Fountain.
Payne, Robert Lee,	Second,	Mt. Airy.
Posner, Louis Isidor,	First,	New York, N. Y.
Powell, Henry Hubert,	Second,	Auburn.
Ray, John Edwin, Jr., B.A., 1908, Wake Forest College.	First,	Raleigh.
Riggsbee, Arthur Eugene,	Fourth,	Raleigh.
Roberts, Harry Clay,	First,	Rowland.
Rodriguez, Adolfo Bartolome,	Third,	Sagua la Grande,
Rowe, Robert Herman, A.B., 1907, Catawba College.	Second,	Newton. [Cuba.
Shamaskin, Arnold,	Second,	New York, N. Y.
Shaw, William Alger,	Second,	Chapel Hill.
Smith, Lawrence Jackson,	First,	Liberty.
Speas, Dallas Cleveland,	Second,	Winston-Salem.
Spencer, Frederick Brunell,	Fourth,	Swan Quarter.
Stevens, William Leary,	First,	Indiantown.
Stockdon, Walter Irving,	First,	Glendon.
Strickland, Jesse Armed,	Third,	Wilson.
Strowd, William Amick,	Fourth,	Chapel Hill.

Talley, John Samuel,	Fourth,	Statesville.
Thompson, John Melvin,	Fourth,	Graham.
Thompson, Sanford Webb,	First,	Falls.
Tucker, Quincy Carlisle,	Second,	Jefferson.
Wadsworth, William Houston,	Second,	Concord.
Walker, Duncan DeVane,	First,	Warsaw.
Walker, Lewis Kyle,	Second,	Currie.
Warren, Robert Lee,	Second,	Dunn.
Washburn, Benjamin Earl, A.B., 1906.	Second,	Chapel Hill.
Weatherly, Talmage Bryan,	First,	Gorman.
West, Louis Nelson,	First,	Raleigh.
Whitaker, Ferdinand Cary,	Second,	Enfield.
Wilkins, Java Cleveland, A.B., 1907, Elon College.	Second,	Burlington.
Williams, Timothy Graham,	Second,	Rose Hill.
Wilson, Oscar Britton,	First,	Rock Hill, S. C.
Wooten, Amos Monroe,	Third,	Fountain.
Wrenn, Frank, A.B., 1907, Trinity College.	First,	Siler City.
Wright, Luke Gregory,	First,	Indiantown.
Wright, Thurman Gregory,	First,	Shiloh.

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Students in Pharmacy

Banks, Robert Ray,	First,	Elizabeth City.
Barnhill, Walter Lee,	First,	Bethel.
Beard, John Grover,	Second,	Winston-Salem.
Callahan, Edwin Forrest,	First,	Rowland.
Cocke, Timothy DeWitt,	First,	Asheville.
Covington, Thomas Jefferson, Jr.,	First,	Wadesboro.
Cox, Myrtle Hall,	Second,	Wadesboro.
Crawford, Edgar Poe,	First,	Sugar Hill.
Eason, Charles William,	First,	Chapel Hill.
Ellington, Robert Henry,	First,	Chapel Hill.
Finger, Carl,	First,	Stanley.
Finger, Fred,	First,	Stanley.
Finley, Gray Bynum,	First,	Marion.

Gaddy, Henry Moody,	First,	Red Springs.
Griffin, Hugh Alexander,	Second,	Rocky Mount.
Hall, Samuel Patterson,	First,	Lenoir.
Holland, John Stephen,	First,	Newbern.
Horne, Charles James O'Hagan,	First,	Greenville.
Hutchins, James Alexander,	First,	Chapel Hill.
Lyon, Osborne Henry,	Second,	Ayden.
McDaniel, Charles Bostic,	First,	Forest City.
Mullen, Lester Boyd,	Second,	Huntersville.
Murray, John Edward,	First,	Durham.
Norwood, Eston Gibbons,	First,	Chapel Hill.
Nunn, John Clifford,	First,	Jacksonville.
Peacock, Moses Albean,	First,	Benson.
Porro, Miguel Alberto,	First,	Camaguey, Cuba.
Porter, Clifford,	First,	Concord.
Reedy, Graham McLure,	First,	Rowland.
Reinhardt, Robert Lee,	First,	Forest City.
Rhyne, Joseph Henry,	First,	Charlotte.
Rucker, Zachary Brisco,	First,	Rutherfordton.
Stancill, John Harvey,	First,	Selma.
Stinson, Joseph Norwood,	First,	Morganton.
Temple, Jasper Owen,	First,	Kinston.
Thompson, William Ernest,	First,	Graham.
Wallace, James Mayrant,	First,	Columbia, S. C.
Wetzell, William Louis,	Second,	Gastonia.
White, Walter Rodwell,	First,	Warrenton.
Wilson, William Rosser,	First,	Greenville.
Winn, John Harvey, Jr.,	First,	Greensboro.
Wood, William Hardy,	First,	Pollocksville.
Woodard, Ernest Vanderbilt,	First,	Princeton.
Yates, Silas Otho,	First,	Morrisville.

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To be added to the roll of Seniors:

Burgess, James Lafayette	Sci.,	Washington, D. C.

GENERAL SUMMARY

Boards of Government and Instruction and other Officers

Trustees		80
Professors	52	
Instructors	17	
Fellows and Assistants	29	
		98
Other Officers		11

Students

THE COLLEGE:		
Senior Class	79	
Junior Class	90	
Sophomore Class	160	
Freshman Class	192	
		521
THE GRADUATE SCHOOL		27
THE SCHOOL OF LAW		94
THE SCHOOL OF MEDICINE:		
Fourth-Year Students	13	
Third-Year Students	13	
Second-Year Students	38	
First-Year Students	49	
		113
THE SCHOOL OF PHARMACY:		
Second-Year Students	6	
First-Year Students	38	
		44
Total number of students		799
Deduct for names counted twice		13
		786

SUMMARY BY STATES

North Carolina	725	Georgia	2
South Carolina	13	Maryland	2
Cuba	8	Alabama	1
New York	6	District of Columbia	1
Pennsylvania	6	Kentucky	1
Virginia	6	New Hampshire	1
Florida	5	New Jersey	1
Tennessee	3	Ohio	1
Texas	3	Oklahoma	1

THE SUMMER SCHOOL

FACULTY

FRANCIS PRESTON VENABLE, PH.D., D.SC., LL.D., PRESIDENT.

NATHAN WILSON WALKER, A.B., DIRECTOR OF THE SUMMER SCHOOL. *Professor of Secondary Education.*

WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*

GEORGE HOWE, PH.D. *Professor of the Latin Language and Literature.*

NATHAN WILSON WALKER, A.B., *Professor of Secondary Education.*

JAMES DOWDEN BRUNER, PH.D., *Professor of the Romance Languages and Literatures.*

EDWARD KIDDER GRAHAM, A.M., *Professor of English Literature.*

JAMES EDWARD LATTA, A.M., *Professor of Electrical Engineering.*

MARVIN HENDRIX STACY, A.M., *Associate Professor of Civil Engineering.*

LOUIS ROUND WILSON, PH.D., *Associate Professor of Library Administration.*

HENRY MCGILBERT WAGSTAFF, PH.D., *Associate Professor of History.*

SUSIE FULGHUM, *Teacher in the Goldsboro Public Schools.*

GENERAL INFORMATION

The Summer Term: June 7-July 17

The University Summer School for Teachers will open on Monday, June 7, and continue for a term of six weeks, closing on Saturday, July 17. The school will be in session six days each week or thirty-six working days.

Registration

Registration will begin on Saturday, June 5. All students of the Summer School are urged to be present and register on this day, as regular class work will begin promptly at 8:45 on Monday morning, June 7. There are certain preliminary arrangements necessary to be made in the way of selecting courses, securing board and lodging, and getting books, which should be attended to before class work begins. It is much better to be on hand promptly so as to begin with the class than to come in a day or two late.

Courses of Instruction

During the summer term of 1909 instruction will be offered in the following subjects: English, Mathematics, History, Latin, German, French, Physics, Secondary Education, Primary School Methods, and Library Administration. These courses are designed to meet the needs of those teachers who are striving to fit themselves for better service. The instruction is of the same high character as that of the regular term of the University. There are no fads, frills, shams, or pretenses about it. To the earnest teacher or student who desires to spend a part of his summer in serious, quiet study under the direction of competent instructors, splendid opportunities are offered.

Those Who May Be Benefited

Among those who may be benefited by the Summer School may be mentioned the following classes:

1. Teachers in high schools, and those intending to teach, who desire better general training for their work.

2. Teachers who desire special training in any branches offered. The work will be so graded and arranged that a student can make considerable progress by attending two or three summers in succession.

3. Teachers in elementary schools, or those preparing to teach, who wish to improve their general scholarship, or who wish to study the methods used with primary classes in our best schools.

4. Prospective students of the University who wish to make up deficiencies in their entrance requirements.

5. Teachers who expect to take the State examination in July for either the High School Teacher's Certificate or the Five-Year State Certificate.

Increasing Demand for High School Teachers.

The growth of public high schools in North Carolina causes an increasing demand for well-equipped high school teachers and principals. During the past two years the University has had calls for over two hundred men to engage in educational work in this and other Southern states. It has been able to supply barely one-half of that number. This demand for better trained teachers is becoming more and more insistent all over the South, and it means greater opportunity for the teacher who is preparing himself to fill a higher position next year than he filled last. To be able to advance in his profession to even larger fields of usefulness should be the ambition and constant aim of every true teacher. The University is maintaining the Summer School in order that it may better serve the schools by sending into them more efficient teachers, and that it may better serve the teachers by giving them an opportunity to improve their scholarship and thus fit themselves for better work.

Examinations and Certificates

At the close of the term regular examinations will be held, and certificates will be issued upon the satisfactory completion of all courses.

Those teachers in the Summer School who wish to apply to the State Board of Examiners for the High School Teacher's Certificate or the Five-Year State Certificate will have an opportunity to take the examinations for those certificates the second week in July at the end of the fifth week of the Summer School. This plan gives them an opportunity to review thoroughly the main subjects on which they are to be examined, and then to take the examinations at a time when they should be best able to pass them successfully. Teachers who take either of those examina-

tions may be excused from the regular examinations at the close of the term mentioned in the paragraph above.

The Library

The University Library, containing over 50,000 volumes and over 17,000 pamphlets, will be open daily to the students of the Summer School. Excellent opportunities are here afforded the students for wide reading and special research.

The Gymnasium

All male students of the Summer School will be afforded the privileges of the swimming pool in the gymnasium free of cost.

Board and Lodging

First class board and lodging at the University Inn (formerly Pickard's Hotel) will be offered the students of the Summer School at $5 a week, or $25 for the term of six weeks. Good board and lodging can be obtained at the village boarding houses at reasonable rates, varying from $12.50 to $20 per month.

Fees

No tuition fees will be charged teachers or those who are preparing themselves for teaching, but a registration fee of $3 will be required of all students of the Summer School. Those students who are not teachers will be charged a tuition fee of $10.

Class Rooms

The classes in English will meet in the English Room, *Old East Building*; those in Primary School Methods and Library Administration will meet in the Reading room, *Library Building*; all others, unless otherwise announced, will meet in *Alumni Hall*, rooms on second floor.

DAILY PROGRAM

I. Chapel Attendance

Chapel exercises will be conducted in Gerrard Hall each morning at 8:30. All Summer School students are expected to attend.

II. Schedule of Recitations

8:45

Primary Methods 1
Physics 1
German 1
English 2

9:45

English 1
History 2
German 2

10:40

Primary Methods 2
Physics 2
History 1
Latin 2

11:35

French 2
Latin 1
Math. (Algebra) 1

12:30

Library Administration
French 2
Math. (Geometry) 2
Secondary Education

Library Hours

9:30 to 12:30
3:30 to 4:00

ANNOUNCEMENT OF COURSES

ENGLISH

Professor GRAHAM.

1. Grammar and Composition. Especial attention to the analysis of sentences and the application of the principles of grammar in composition. Frequent written exercises will be required, and the written work will be discussed in the class-room. Text-book: Smith's *Our Language—Grammar*. *Six hours a week.*

2. Literature. The literature required for entrance to the leading colleges of the United States will form the basis of this course. Methods of teaching, lectures, reading, and class discussion. *Six hours a week.*

HISTORY

Associate Professor WAGSTAFF.

1. The History of England. Lectures and assigned readings. Text-book: Walker's *Essentials in English History. Six hours a week.*

2. The History of the United States to the close of Reconstruction. Lectures and assigned readings. Text-book: Hart's *Essentials in American History. Six hours a week.*

LATIN

Professor HOWE.

1. Elementary course. Pronunciation, inflection, syntax of cases and verbs; special study of the subjunctive, indirect discourse, relative and conditional sentences; reading of Cæsar's Gallic War. Text-books: Bennett's *Latin Grammar.* Any Standard text of Cæsar. *Six hours a week.*

2. Course either in Vergil's Aeneid, I-VI, or in Cicero's Orations against Catiline. Translation and syntax. Text-book: Any standard text of Vergil's Aeneid, or of Cicero's Orations against Catiline. *Six hours a week.*

GERMAN

Professor TOY.

1. Elementary course. Grammar. Written exercises. Dictation. Translation. Text-books: Thomas's *German Grammar*; Mosher's *Wilkommen in Deutschland. Six hours a week.*

2. Advanced course. Review of Grammar. Composition. Translation. Text-books: Thomas's *German Grammar*; Wesselhoefdt's *German Exercises*; Freytag's *Die Journalisten. Six hours a week.*

FRENCH

Professor BRUNER.

1. Elementary course. Grammar. Reading of easy prose. Text-books: Joynes's *Minimum French Grammar*; Chateaubriand's *Le Dernier Abencerage. Six hours a week.*

2. Advanced course. Reading of novels and dramas. Text-books: Feuillet's *Le Jeune Homme Pauvre;* Hugo's *Hernani*. *Six hours a week.*

MATHEMATICS

Associate Professor STACY.

1. Secondary Algebra. Lectures and assigned work embracing the introductory chapters and including Factoring, Simultaneous Equations, Exponents, Involution and Evolution, Quadratic Equations, etc. Text-book: Fisher and Schwatt's *Secondary Algebra*. *Six hours a week.*

2. Plane and Solid Geometry. Lectures and assigned work. Text-book: Wells's *Essentials of Plane and Solid Geometry*. *Six hours a week.*

PHYSICS

Professor LATTA.

1. Elementary course. Mechanics of solids, liquids, and gases. Sound. *Six hours a week.*

2. Elementary course. Magnetism and electricity. Heat and light. Text-book: Millikan and Gale's *A First Course in Physics*. *Six hours a week.*

Courses 1 and 2 may be taken together.

LIBRARY ADMINISTRATION

Associate Professor WILSON.

Library administration and methods. Lectures on the organization and management of school and public libraries, book selecting; preparation of bulletins, use of reference books, reading lists, debate helps, technical library methods. Practice in the Library illustrating the details of subjects treated in the lectures. *Six hours a week.*

SECONDARY EDUCATION

Professor WALKER.

1. High School Organization and Administration: a study of high school curricula and methods. Lectures and

assigned readings. Dutton and Snedden's *Public School Administration in the United States* and DeGarmo's *Principles of Secondary Education* will constitute the basis of this course. *Three hours a week.*

2. The Theory and Practice of Teaching. Lectures and assigned readings. This course will be based on James's *Talks to Teachers on Psychology* and Hamilton's *The Recitation*. *Three hours a week.*

ELEMENTARY SCHOOL METHODS

Miss Fulghum.

1. Model Lessons for Beginners. Model class work, lectures, and assigned reading. Work with children just beginning school. A class of primary grade children will be organized for the purposes of this course. Lessons in phonics, reading, language work, numbers, nature study, etc., etc., covering the general work of the first grade. *Six hours a week.*

2. Methods and Model Lessons for Grades 2 to 4. Lessons, lectures, and assigned readings, covering the general work of the second, third, and fourth grades. Sight reading, eye training, ear training, drills on the phonograms. Special attention will be given to the reading and language work of these grades. *Six hours a week.*

PUBLIC LECTURES

Each week during the Summer School there will be one or two special lectures to all students. These lectures will be given by prominent educational workers; they will be upon topics of vital interest to every teacher and will be of genuine help to all.

For further information, apply to the Director of the Summer School or to Dr. Thomas J. Wilson, Registrar, Chapel Hill, N. C.

STUDENTS

Abell, Flossie,	Smithfield.
Barker, Effie C.,	Apex.
Barron, J. R.,	Hamptonville.
Baucum, Jennie,	Raeford.
Blackburn, Leonard A.,	Winston-Salem.
Braxton, Mae Etta,	Kinston.
Burgess, Edward T.,	South Mills.
Burt, Raymond A.,	Holly Springs.
Cobb, William B.,	Chapel Hill.
Cox, Guy,	Jonesboro.
Craig, Louise,	Wadesboro.
Crump, Inez L.,	Polkton.
Daniels, Virgil C.,	Oriental.
Ellington, Walter C.,	Chapel Hill.
Forbes, Marshall B.,	Shiloh.
Furgerson, Henry B.,	Halifax.
Grant, Henry S.,	Jackson.
Hilliard, Elizabeth H.,	Oxford.
Hicks, Oscar V.,	Goldsboro.
Hodges, Agnes D.,	Washington.
Hodges, Lizzie M.,	Washington.
Jennings, Minnard P.,	Elizabeth City.
Johnson, Clarence W.,	Four Oaks.
Jones, William H.,	Fairview.
Joyner, Elisha Wiley,	Nashville.
Leighton, Andrew F.,	Harmony.
Livingston, John A.,	Wadesboro.
Lunsford, Lillian M.,	Rougemont.
Luther, Mamie B.,	Apex.
Lynch, Mable,	Chapel Hill.
Lynch, Rachael S.,	Chapel Hill.
Lytch, Elizabeth,	Laurinburg.
Martin, Sadie E.,	Madison.
Mewborn, George W.,	LaGrange.
Moser, Early H.,	Shoals.
Murray, Nellie B.,	Mebane.

Oliver, David D.,	Mt. Olive.
Page, Jesse McA.,	Angier.
Perry, Annie L.,	Yanceyville.
Plummer, Nixon S.,	Greensboro.
Sanders, Cornelia M.,	Smithfield.
Scroggs, James W.,	Statesville.
Smith, Claud A.,	Concord.
Smyre, Clara,	Lincolnton.
Teague, Robert T.,	Siler City.
Trivette, Eugene,	Harmony.
Umstead, John W., Jr.,	Chapel Hill.
Vaughan, James Henry,	Elm City.
Weaver, George H.,	Harmony.
Whitley, George T.,	Smithfield.
Willis, Ivey,	Lawndale.
Wilson, Thomas L.,	Clover, S. C.
Wrenn, Lula C.,	Garner.

THE ASSOCIATION OF THE ALUMNI

THE GENERAL ASSOCIATION

Thomas Stephen Kenan, A.B., *President.*
Henry Armand London, A.B., *Secretary.*
James Cole Taylor, B.S., *Recording Secretary.*

The membership includes all persons who have matriculated at the University of North Carolina in any department except the Summer School and all who are or have been officers of the institution.

An effort is now being made to accomplish a more thorough organization of the Alumni. The desire is that the individual alumni shall form into Local Alumni Associations in every community. The Local Associations are to form by proportional representation the General Association of the Alumni. The next meeting of the General Association will be held in Gerrard Hall at the University at the Commencement in June, 1909. Local Associations have been formed in certain cities and others will be established in the course of the year. It is to be hoped that every alumnus will concern himself in assisting the organization in his county or town. A printed statement of the plan of organization has been prepared and will be supplied on request. Inquiries should be directed to Mr. James C. Taylor, Chapel Hill, N. C.

SCHEDULE OF EXAMINATIONS

First Day	Second Day	Third Day	Fourth Day	Fifth Day
Economics 1	Botany 2	English 1	Chemistry 7A	French A
English 1	Chemistry 7	English 4	Economics 5, 6	German A
English 10	English 3	French 2	English 2	Greek 1
German 1	German 5, 4	Geology 7	English 11	History 7
Greek 7	German 6	German 7, 3	Geology 3	Math. 1
Latin 3	Greek 3	Greek 1	German A	Math. 2
Latin 10	Greek 5, 10	History 2, 4	German 1	Pedagogy 1, 2
Math. 2	History 10	Latin 2	Greek A	Philosophy 2
Math. 3	Latin 7A, 8	Math. 3B	Latin 1	Physics 2
Physics 8, 9	Physics 4	Physics 1	Math. 1	Physics 4A
	Pub. Spkg. 1	Physics 7	Math. 5	
		Zoology 1	Pedagogy 3, 4	
			Physics 6	

Sixth Day	Seventh Day	Eighth Day	Ninth Day	Tenth Day
Chemistry 2	Botany 1	Chemistry 1	Chemistry 6	Chemistry 5
Chemistry 7B	Economics 3	Economics 4	English 14	Economics 2
English 5	History 6	English 9	French A	English 1
English 6	Latin 1	French 3	French 4	English 2
French A	Pedagogy 5, 6	Geology 1	Greek 6	French 1
French 1	Philosophy 3	German 2	History 1	Geology 4
Geology 6	Physics 5	German 8	History 3	German A
Greek 2	Pub. Spkg. 2	Greek 4	Latin 2	Greek 9
History 1		History 8	Math. 10	Latin 6, 4
History 9		Latin 5, 9	Spanish 1	Math. 7
Math. 3A		Math. 1		Philosophy 1
Math. 8		Math. 4		Physics A
Philosophy 4		Math. 7A		
		Sch. Org. 1, 2		

	8:45	9:45	10:40	11:35	12:30	2:30
	A	B	C	D	E	
MON.	Chem. 7A Econom. 5 Eng. 2, II, III, IV Eng. 11 French A, V Geology 3 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6	Chem. 2 Chem. 7B Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III German A, IV Greek 2 History 1, I History 9 Math. 3A Math. 8 Philos. 4	Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II Latin 1, I, V Latin 2 I Physics 1 Physics 7 Zoology 1	Chem. 1 Econom. 4 Eng. 9 French 2 Geology 1 German 2 German 8 History 8 Latin 1, IV Math. 1, V, VI Math. 4 Math. 7A Sch. Org. 1, 2	Drawing 4 Eng. 2, V French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. 1,III,IV, VIII Math. 2, II Pedagogy 1, 2 Philos 2	Eng. 1, I Laboratory : Chem 1, Chem. 4 Chem. 8 Chem 9 Physics 1, I Physics 4 Zoology 2
	F	G	H	I	K	
TUE.	Botany 2 Chem. 7 Eng. 3 Eng. 3A German 4, 5 German 6 Greek 3 Greek 5, 10 History 10 Latin 1, IV Latin 7, 8 Math. 1, V, VI Physics 4 Pub Spkg. 1	Chem. 5 Eng. 1, II, VI Eng. 2, I, V Eng. 10B French 1, II Geology 4 German A, III Greek 9 History 12 Latin 4, 6 Math. 7 Philos. 1 Physics A	Chem. 6 Eng. 14B French A, III French 4 Greek 6 History 1, II History 3 Latin 2, II, III Math. 10 Spanish 1	Econom. 1 Eng. 1, I, V, VII French A, I German 1, I Greek 7 History 1, III Latin 10 Math. 2, I Math. 3 Physics 8, 9	Botany 1 Econom. 3 Greek 1, I History 6 Latin 1, II Math. 1,III,IV, VIII Pedagogy 5, 6 Philos. 3 Physics 5 Pub. Spkg. 2	Eng. 1,III,IV Laboratory : Botany 1, I Chem. 1, II Chem. 5 Chem. 8 Drawing 2, 3 Geology 2 Physics 1, II
	A	B	C	D	E	
WED.	Eng. 2, II, III, IV Eng. 11 French A, V Geology 3 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3,4 Physics 6	Chem. 2 Chem. 7B Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III Geology 6 German A, IV Greek 2 History 1, I Math. 3A Math. 8 Philos. 4	Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 4 Latin 1, I, V Latin 2, I Math. 3B Physics 1 Physics 7 Zoology 1	Chem. 1 Econom. 4 French 2 Geology 1 German 2 German 8 Greek 4 History 8 Latin 1, IV Latin 9, 5 Math. 1, V, VI Math. 4 Math. 7A Sch. Org. 1, 2	Drawing 4 Eng. 2, VI French A, IV German A, I I Greek 1, I History 7 Latin 1, II Math. I, III, IV, VIII Math. 2, II Pedagogy 1, 2 Physics 2	Eng. 1, V, VII Laboratory : Botany 1, II Chem. 1, III Chem. 3 Chem. 4 Chem. 8 Drawing 2, 3 Physics 4A

	8:45	9:45	10:40	11:35	12:30	2:30
	F	G	H	I	K	
THU.	Chem. 7 Eng. 3 Eng. 3A German 4, 5 German 6 Greek A Greek 5, 10 History 10 Latin 1, III, VI Latin 7, 8 Math. 1, I, II, VII Pub. Spkg. 1	Chem. 5 Eng. 1, II, VI Eng 2, I, V Eng. 10B French 1, II Geology 4 German A, IV Greek 9 History 12 Latin 4, 6 Math. 7 Philos. 1 Physics A	Chem. 6 Eng. 14B French A, III French 4 Greek 6 History 1, II History 3 Latin 2, II, III Math. 10 Spanish 1	Econom. 1 Eng 1, I, V, VII French A, I German 1, I Greek 7 History 1, III Latin 10 Math. 2, I Math. 3 Physics 8, 9	Botany 1 Econom. 3 Greek 1, II History 6 Latin 1, I, V Pedagogy 5, 6 Philos. 3 Physics 5 Pub. Spkg. 2	Laboratory Botany 2 Chem. 1, IV Chem. 8 Chem. 9 Drawing 1 Geology 2 Physics 4 Zoology 1, I Zoology 2
	A	B	C	D	E	
FRI.	Chem. 7A Econom. 5 Eng. 2, II III, IV French A, V Geology 3 German A, I German 1, II Greek A Latin 1, III, VI Math. 1, I, II, VII Math. 5 Pedagogy 3, 4 Physics 6	Chem. 2 Eng. 1, IV Eng. 5 Eng. 6 French A, II French 1, I, III German A, IV Greek 2 History 1, 1 History 9 Math. 3A Math. 8 Philos. 4	Chem. 16 Eng. 1, III Eng. 4 French 3 Geology 7 German 3, 7 Greek 1, II History 4 Latin, 1, I, V Latin 2, I Math. 3B Physics 1 Physics 7	Chem. 1 Econom. 4 Eng. 9 French 2 Geology 1 German 2 German 8 Greek 4 History 8 Latin 1, V Latin 9, 5 Math. 1, V, VI Math. 4	Eng. 2 VI French A, IV German A, II Greek 1, I History 7 Latin 1, II Math. 1, III, IV, VIII Math. 2, II Pedagogy 1, 2 Philos. 2 Physics 2 Physics 4A	Eng 1, II, VI Laboratory Botany 2 Chem. 1, V Chem. 3 Chem. 4 Chem. 8 Geology 4 Physics 7 Zoology 1, II Zoology 2
		G	H	I		
SAT.	Botany 3 Chem. 5 Geology 6 German 4, 5 German 6 Zoology 3	Botany 3 Drawing 1 Eng. 1, II, VI Eng. 2, I, V French 1, II German A, III Math. 7 Philos. 1 Physics A Zoology 3	Botany 3 Chem. 5 French A, III French 4 History 1, II History 3 Latin 2, II, III Math. 10 Spanish 1 Zoology 3	Botany 3 Econom 1 Eng. 1, I, V, VII French A, I German 1, I Greek 7 History 1, III Latin 3 Math. 2, I Math. 3 Zoology 3	Botany 3 Zoology 3	

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